

ENTWICKLUNG DER REIHEN
DER
GYLDÉN'SCHEN STÖRUNGSTHEORIE
BIS ZU
GLIEDERN ZWEITER ORDNUNG.

INAUGURAL-DISSERTATION
ZUR
ERLANGUNG DER DOCTORWÜRDE
BEI DER
PHILOSOPHISCHEN FACULTÄT DER UNIVERSITÄT MÜNCHEN
VORGELEGT
VON
HANS MASAL.

MÜNCHEN
DRUCK DER AKADEMISCHEN BUCHDRUCKEREI VON F. STRAUB
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EINLEITUNG.

Die vorliegende Arbeit, die wie meine beiden früheren Abhandlungen¹⁾ bei Gelegenheit der Berechnung einer absoluten Bahn entstanden ist, strebt eine Erleichterung der numerischen Anwendung der Gyldén'schen Theorie an, und zwar durch eine explizite Darstellung der Reihen, welche bestimmt sind, die Störungswerthe zu liefern; in dieser Beziehung sind die beiden genannten Tafeln als Einleitung zu diesen Formeln zu betrachten und hauptsächlich der Theorie der kleinen Planeten gewidmet.

Sowie in allen Störungstheorien, die ja nach Potenzen der störenden Masse fortschreiten, entstehen auch bei Gyldén erhebliche rechnerische Schwierigkeiten, wenn man ausser den Gliedern erster Ordnung der Masse Glieder zweiter Ordnung mitnimmt. Das Aufsuchen von Gliedern, die, durch die Integration vergrößert, auch als Glieder zweiter Ordnung merkbar werden, musste von Fall zu Fall vorgenommen werden, und die Arbeit Brendel's²⁾, der als Erster diese Genauigkeit angestrebt hat, zeigt die Complizirtheit dieses Verfahrens zur Genüge. Ich bin in meiner Arbeit einen Schritt weiter gegangen und habe versucht, für die Störungsausdrücke Formeln aufzustellen, welche für die verschiedenen Typen von kleinen Planeten in Anwendung gebracht werden müssen. Es treten bekanntlich bei Gyldén 4 Gruppen von Gliedern auf, die für die Theorie des betreffenden Planeten von Wichtigkeit sind, nämlich Glieder mit den resp. Argumenten:

$$\begin{array}{ll} \text{A) } s_n v - A_n, & \text{B) } (1 - s_n) v - B_n, \\ \text{C) } d_n v - C_n, & \text{D) } (1 - d_n) v - D_n, \end{array}$$

wo s_n von der Ordnung der Masse des störenden Körpers ist, und d_n die Form hat $d_n = i - i'\mu$, also im Falle einer nahen Commensurabilität zwischen den mittleren Bewegungen des störenden und gestörten Körpers auch bis zur Ordnung von s herabsinken kann; Gyldén nennt Glieder mit den Argumenten A) und B) elementäre Glieder langer resp. kurzer Periode, solche mit den Argumenten C) und D) charakteristische langer resp. kurzer Periode. Diese Glieder nun sind es, bei deren genauen Bestimmung man gezwungen ist, bis zur zweiten Ordnung der Masse zu gehen, und in den folgenden Entwicklungen sind diese Glieder für die beiden Fälle, wo μ nahe $\frac{1}{3}$ und nahe $\frac{1}{2}$ ist, mit aller Schärfe angeführt. Für den $\frac{1}{2}$ Typus haben also die Glieder der Form C) die Argumente: $(1 - 2\mu)v - C_n$, $(2 - 4\mu)v - C_n$, $(3 - 6\mu)v - C_n$, für den $\frac{1}{3}$ Typus: $(1 - 3\mu)v - C_n$; die Glieder der Form D) haben die Argumente: $2\mu v - D_n$, $(2 - 2\mu)v - D_n$ für den $\frac{1}{2}$ Typus, $(2 - 3\mu)v - D_n$ für den $\frac{1}{3}$ Typus.

1) Hans Masal, Formeln und Tafeln; Stockholm 1889.

Hans Masal, Table de l'intégrale $\int_0^{\pi} \frac{\sin 2n\varphi d\varphi}{\{1 - a^2 \sin^2 \varphi\}^{\frac{3}{2}}}$; Stockholm 1891.

2) Martin Brendel, Om användningen af den absoluta störingsteorien; Stockholm 1889.

Die Ausdrücke für die Coefficienten dieser Glieder bestehen nun ausser dem Gliede erster Ordnung aus mehreren Gruppen von Producten je zweier Glieder, die natürlich nur soweit ausgeschrieben sind, um den weitem Verlauf zweifellos erkennen zu lassen.

Da — wie man aus der Art der Entwicklung der Störungsfunction ersieht — die Argumente die Form: $(\nu + \nu' \mu + n s + n' \mu s') v + n I' + n' I'' + n(\pi - I') + n'(\pi' - I'') + \nu' B$ haben, wo $B = A' - \mu A + \mu W - W'$ und $W = n(T + T_1)$, $W' = n'(T' + T_1')$ ist, und der zugehörige Coefficient irgend einer Entwicklung durch die Bezeichnung: $B_{\nu\nu'}(nn')$ sofort das Argument erkennen lässt, ist es zu Folge der Relation

$$\left\{ \begin{array}{l} \nu + \nu' + n + n' = 0; \quad s = n + 2p \quad \text{wo } p = 0 \text{ sein kann} \\ s' = n' + 2p' \quad \text{„ } p' = 0 \quad \text{„ } \end{array} \right.$$

ein Leichtes, diese innerhalb der Coefficienten auftretenden Producte, die eigentlich bis in's Unendliche fortgesetzt gedacht werden müssen, beliebig weit fortzusetzen. Von diesen Gliedern zweiter Ordnung wird natürlich nur eine ganz geringe Zahl etwas Merkliches liefern — ausser dem durch die Integration vergrössertem Gliede werden etwa noch 2 bis 3 Glieder zu berücksichtigen sein — es wurde aber dieses vollständige Ausschreiben der Glieder zweiter Ordnung für die Coefficienten mit den Argumenten obiger 4 Formen der von H. Brendel durchgeführten Ableitung, bei der nur das eine, im Falle μ nahe $= \frac{1}{3}$ vergrösserte Glied mitgenommen ist, vorgezogen, um eben die Formeln für verschiedene Commensurabilitäten brauchbar zu machen, und um gleichzeitig das Entstehen der Glieder zu erklären; sollte bei irgendwelchen höhern Werthen von i und i' der Ausdruck $i - i'\mu$ sehr klein werden, so wird man an der Hand der hier durchgeführten Entwicklungen das betreffende Glied leicht bilden können.

Die Entwicklungen sind in der vorliegenden Arbeit bis zur zweiten Potenz der Excentricität geführt, indem ich die höhern Glieder einer spätern Publication vorbehalte, nur die elementären Glieder dritten Grades sind noch aufgenommen worden, doch nur bis zur ersten Ordnung der Masse; die einzelnen Coefficienten sind dabei nach Potenzen von η und η' geordnet und in der Reihenfolge angeschlossen, wie sie sich z. B. aus dem Tableau für $\frac{\mu_1}{\mu} (1 - \eta^2) P$ durch Einsetzen der Werthe $n = 0, 1, 2, \dots$ ergeben. Allerdings können, wie Gylden in seiner letzten Arbeit¹⁾ gezeigt hat, die Glieder dritten Grades auf das Resultat in gewissen Fällen bedeutenden Einfluss haben, ihre Mitnahme wird aber die allgemeinen Entwicklungsformeln nicht wesentlich verändern, nur hat man es dann mit der Integration einer Gleichung von der Form:

$$\frac{d^2 q}{dv^2} + (1 - \beta_1) q - \beta_3 q^3 = -\gamma_1 \cos [(1 - \sigma_1) v - B_1] - \gamma_2 \cos [(1 - \sigma_2) v - B_2] - \dots$$

zu thun, und die für die vereinfachte Gleichung:

$$\frac{d^2 q}{dv^2} + (1 - \beta_1) q = -\gamma_1 \cos [(1 - \sigma_1) v - B_1] - \dots$$

giltige Integrationsmethode wird hinfällig.

1) Hugo Gylden, Nouvelles recherches sur les séries employées dans les théories des planètes; Stockholm 1891.

Ableitung der Differentialgleichungen.

Führt man in die Bewegungsgleichungen des gestörten Körpers, bezogen auf die momentane Bahnebene

$$\left. \begin{aligned} \frac{d^2 x}{dt^2} + \mu_1 \frac{x}{r^3} &= \mu_1 \frac{\partial(\Omega)}{\partial x} \\ \frac{d^2 y}{dt^2} + \mu_1 \frac{y}{r^3} &= \mu_1 \frac{\partial(\Omega)}{\partial y} \end{aligned} \right\} \text{ wo } (\Omega) = \frac{\mu'}{\mu_1} \left(\frac{1}{A} - \frac{r}{r'^2} \cos H \right)$$

Polarcoordinaten ein, bezeichnet also mit r den wahren Radius vector, mit v die wahre Länge in der Bahn, so ist:

$$r \frac{d^2 r}{dt^2} - r^2 \left(\frac{dv}{dt} \right)^2 + \frac{\mu_1}{r} = \mu_1 r \frac{\partial(\Omega)}{\partial r} \quad (1)$$

$$\frac{d}{dt} \left(r^2 \frac{dv}{dt} \right) = \mu_1 \frac{\partial(\Omega)}{\partial v} \quad (2)$$

Gylden definirt nun die Grössen q und S durch die Gleichungen:

$$r = \frac{a(1-\eta^2)}{1+q}$$

$$r^2 \frac{dv}{dt} = \frac{\sqrt{a\mu_1(1-\eta^2)}}{1+S}$$

wo a eine absolute Constante, η eine langperiodische Function bedeutet. Führt man diese Substitutionen aus, so folgen für q und S die Gleichungen:

$$\begin{aligned} \frac{d^2 q}{dv^2} + q &= - \left\{ \frac{3}{2} \frac{1}{1-\eta^2} \frac{d\eta^2}{dv} - \frac{1}{1+S} \frac{dS}{dv} \right\} \frac{dq}{dv} - \left\{ \frac{1}{1-\eta^2} \frac{d^2 \eta^2}{dv^2} + \frac{3}{2} \frac{1}{(1-\eta^2)^2} \left(\frac{d\eta^2}{dv} \right)^2 - \right. \\ &\quad \left. - \frac{1}{1+S} \frac{dS}{dv} \frac{1}{1-\eta^2} \frac{d\eta^2}{dv} \right\} (1+q) + 2S + S^2 - (1+S)^2 \frac{(c)}{a} P \end{aligned} \quad (3)$$

$$- \frac{1}{1+S} \frac{dS}{dv} = (1+S)^2 Q + \frac{1}{2} \frac{1}{1-\eta^2} \frac{d\eta^2}{dv} \quad (4)$$

wenn wir bezeichnen:

$$Q = \frac{r^2}{(c)a} \frac{\partial a(\Omega)}{\partial v}, \quad P = \frac{r^2}{(c)} \frac{a \partial(\Omega)}{\partial r} = - \frac{a}{\mu_1} \frac{\partial(\Omega)}{\partial q}$$

und $(c) = \mu_1 a (1 - \eta^2)$.

Die Gleichung (2) liefert dann noch die Relation

$$\frac{dt}{dv} = \frac{a^{\frac{3}{2}} (1-\eta^2)^{\frac{3}{2}}}{\sqrt{\mu_1} (1+q)^2} (1+S). \quad (5)$$

Die Grösse q theilt nun Gylden ab in einen Theil (q) mit den Gliedern der Form B , und in $(1-\eta^2)\xi$ mit allen übrigen Gliedern, und entwickelt, nachdem also $q = (q) + (1-\eta^2)\xi = (q) + R$ gesetzt wird, die Störungsfunction und ihre Ableitungen in Reihen, fortschreitend nach Potenzen von η, η' und ξ , indem er setzt:

$$\begin{aligned} \frac{\mu_1}{\mu'} (1-\eta^2) P &= \Sigma \{ B_{00} (n, -n) \cos [n(1-\mu)v - nB] \\ &\quad + B_{10} (n+1, -n) \eta \cos [n(1-\mu)v - nB + (1-\mu)v - \Gamma - (\pi - \Gamma)] \\ &\quad + \dots \dots \dots \} \end{aligned}$$

Ueber die Art der Entwicklung siehe Masal „Formeln und Tafeln etc.“, wo sich die Formeln für die Coefficienten B , und die der Coefficienten A der Entwicklung:

$$\begin{aligned} \frac{\mu_1}{\mu'} Q &= \Sigma \{ A_{00} (n, -n) \sin [n(1-\mu)v - nB] \\ &\quad + \dots \dots \dots \} \end{aligned}$$

als Functionen der $\gamma_s^{l,n}$ finden. Für die Grössen $\beta_n^{(s)}$, aus denen sich die $\gamma_s^{l,n}$ nach der Formel

$$\gamma_s^{l,n} = \frac{1.3.5 \dots (2s-1)}{2.4.6 \dots 2s} \alpha^{n+2s+1} \beta_{n+s}^{(2s+1)}$$

zusammensetzen, habe ich eine Tafel gerechnet, welche diese Coefficienten für die Werthe von α , die bei den kleinen Planeten in Betracht kommen, liefert.

Die numerische Rechnung.

Erste Näherung.

Unsere Aufgabe besteht in der Integration der Gleichungen (3), (4) und (5). Wie aus der Form der Differentialgleichungen hervorgeht, die doch die nach Potenzen von ξ entwickelten P und Q enthalten, kann man sich nur successive den genauen Werthen von (q) und R nähern. Da wir für die spätere Rechnung genäherte Werthe von s und z brauchen, wollen wir zuerst (q) , und zwar in erster Näherung bestimmen, und es empfiehlt sich, diese Rechnung vor der Bestimmung aller A und B auszuführen, um für diese Coefficienten, die ja auch von $q = \frac{n' \frac{1-s'}{1-s}}{\mu \frac{1-s'}{1-s}}$ abhängen, gleich die strengen Werthe zu erhalten. Bei der Gleichung für (q) in erster Näherung begnügen wir uns mit Gliedern erster Ordnung der Masse und ersten Grades, wodurch (4) übergeht in

$$S = - \int Q dv$$

und (3) in:

$$\frac{d^2(q)}{dv^2} + (q) = - \frac{(c)}{a} P + 2S.$$

Erinnern wir uns nun, dass (q) nur Glieder mit den Argumenten $(1-s)v - \pi$ und $(1-\mu s')v - \pi'$ enthalten soll, so lautet die Differentialgleichung:

$$\begin{aligned} \frac{d^2(q)}{dv^2} + (q) = & \{ -B_{010}(n+1, -n) - B_{010}(n-1, -n) \} \eta \cos[(1-s)v - \pi] - \\ & + \{ -B_{101}(n, -n+1) + \frac{2}{1-\mu s'} A_{101}(n, -n+1) \} \eta' \cos[(1-\mu s')v - \pi'] \end{aligned}$$

oder nach einer — später begründeten — abkürzenden Bezeichnung:

$$\frac{d^2(q)}{dv^2} + (q) = H_{10}(-10)_{10} \eta \cos[(1-s)v - \pi] + H_{10}(0-1)_{01} \eta' \cos[(1-\mu s')v - \pi']$$

Schreiben wir nun mit Gylden

$$(q) = \eta \cos[(1-s)v - \pi]$$

wo $\eta \cos(\pi - \Gamma) = x_0 + x_1 \cos[(s - \mu s')v + \Gamma - \Gamma'] + x_2 \cos[(s - \mu s_1')v + \Gamma - \Gamma''] + x_3 \cos[(s - \mu s_2')v + \Gamma - \Gamma''']$

$$\eta \sin(\pi - \Gamma) = -x_1 \sin[(s - \mu s')v + \Gamma - \Gamma'] - x_2 \sin[(s - \mu s_1')v + \Gamma - \Gamma''] - x_3 \sin[(s - \mu s_2')v + \Gamma - \Gamma''']$$

und analog:

$$\eta' \cos(\pi' - \Gamma') = x_1' \cos[(\mu s' - \mu s_1')v + \Gamma' - \Gamma''] + x_2' \cos[(\mu s' - \mu s_2')v + \Gamma' - \Gamma''']$$

$$\eta' \sin(\pi' - \Gamma') = -x_1' \sin[(\mu s' - \mu s_1')v + \Gamma' - \Gamma''] - x_2' \sin[(\mu s' - \mu s_2')v + \Gamma' - \Gamma''']$$

bezeichnen noch mit

$$\beta = H_{10}(-10)_{10}, \quad \gamma = H_{10}(0-1)_{01}$$

so nimmt die Gleichung die Form an:

$$\frac{d^2(q)}{dv^2} + (1-\beta)(q) = \gamma \eta' \cos[(1-\mu s')v - \pi']$$

Was die Integration dieser, und der später aufgestellten vollständigen Gleichung für (q) , sowie die Bestimmung der Constanten x_0 und Γ und die Bedeutung der übrigen Constanten anbetrifft, verweise ich auf die diesen Gegenstand

behandelnde Publication von Max Wolf¹⁾, wo sich auch die numerischen Werthe der z' , Γ' und g' finden; g bestimmt sich aus der Gleichung

$$1 - g = \sqrt{1 - \beta}$$

für (ϱ) folgt ein Ausdruck von der Form:

$$(\varrho) = x_0 \cos [(1 - g) v - \Gamma] + a_1 \cos [(1 - \mu g') v - \Gamma'] + a_2 \cos [(1 - \mu g_1') v - \Gamma''] + a_3 \cos [(1 - \mu g_2') v - \Gamma''']$$

Wir kommen jetzt, wo mit Hülfe des gefundenen g die Berechnung aller A und B streng möglich ist zur Bestimmung von $R = (1 - \eta^2) \xi$ in erster Näherung, und benutzen dazu von der Gleichung für ϱ nur den Theil:

$$\frac{d^2 \varrho}{dv^2} + \varrho = -\frac{(c)}{a} P + 2S + \frac{dS}{dv} \frac{d(\varrho)}{dv},$$

nehmen also nur Glieder erster Ordnung der Masse mit, so dass in den Ausdrücken für P und Q alle mit ξ multiplizirten Glieder natürlich fortzulassen sind; ferner schreiben wir nach R, unserer Annahme gemäss, dass alle Glieder der Form B) nach (ϱ) kommen, nur Glieder anderer Formen. Die Gleichung (4) für S vereinfachen wir in erster Näherung zu

$$S = - \int Q dv$$

und da P durch eine cos-Reihe, Q durch eine sin-Reihe dargestellt ist, $\frac{d(\varrho)}{dv} = -\eta \sin [(1 - g) v - \pi]$, liefert die ganze rechte Seite nur cos-Glieder. Von den mit ξ multiplizirten Gliedern nehmen wir nur das constante Glied $B_{0,10} (n, -n) \xi$ in die Gleichung auf, können sie also, wenn letzteres nach links gebracht wird, in folgender Form schreiben:

$$\frac{d^2 R}{dv^2} + (1 - \beta) R = \sum H_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^{s'} \cos [(\nu + \nu' \mu + n g + n' \mu g') v + n \Gamma + n' \Gamma' + n (\pi - \Gamma) + n' (\pi' - \Gamma') + \nu' B] \quad (I)$$

Setzt man für P in die Gleichung seinen Ausdruck ein, bildet S aus Q durch einfache Integration (also mit Vernachlässigung höherer Glieder), indem man nur v als variabel ansieht, also durch den Factor von v im Winkelargument $l_{\nu\nu'} (nn') = \nu + \nu' \mu + n g + n' \mu g'$ dividirt, bildet endlich $\frac{dS}{dv} \frac{d(\varrho)}{dv}$ und vereinigt die zusammengehörigen Coefficienten, so kommt man zu den später angegebenen Formeln für die Coefficienten $H_{\nu\nu'} (nn')_{ss'}$ der Differentialgleichung (I), die sich in einfacher Weise aus den A und B zusammensetzen; bei der Bezeichnung der A und B wurde es vorgezogen, den Werth von n , für welchen das betreffende A oder B zu nehmen ist, als ersten Index (links unten) anzuschreiben, und nicht seinen Werth in die Klammer einzusetzen, da diese Bezeichnung öfters den Ursprung nicht sofort erkennen lässt; es bedeutet also z. B.

$$B_{3,10} (n - 1, -n) = [B_{1,0} (n - 1, -n)]_{n=3} = B_{1,0} (2, -3).$$

In der Columnne „Argument“ ist in diesen und allen folgenden Formeln der Kürze halber nur der Factor von v im Argument angeschrieben, da man die übrigen Winkelgrössen daraus sofort ableiten kann gemäss der allgemeinen Form der Argumente:

$$(\nu + \nu' \mu + n g + n' \mu g') v + n \Gamma + n' \Gamma' + n (\pi - \Gamma) + n' (\pi' - \Gamma') + \nu' B$$

wo

$$B = A' - \mu A + \mu W - W' \text{ und } W = n (T + T_1), W' = n' (T' + T'_1).$$

Die Coefficienten H sind in den Formeln bis zur zweiten Potenz der Excentricität entwickelt, und entsprechend geordnet. Die Integration der Gleichung (I) geschieht, wie man sich einfach überzeugen kann, dadurch, dass man den Coefficienten jedes Gliedes durch $l_{\nu\nu'} (nn')$ dividirt; ist nämlich $1 - \delta$ der Factor von v im Winkelargumente, so ist der entsprechende Divisor $\lambda = 2\delta - \delta^2 - \beta$; für diese Divisoren λ sind im Folgenden die genauen Ausdrücke gegeben; natürlich wird man nur die kritischen Divisoren nach diesen strengen Formeln berechnen. Wir schreiben also die Integralgleichung:

$$R = \sum J_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^{s'} \cos [(\nu + \nu' \mu + n g + n' \mu g') v + A] \quad (II)$$

und es ist

$$J_{\nu\nu'} (nn')_{ss'} = \frac{1}{\lambda_{\nu\nu'} (nn')} H_{\nu\nu'} (nn')_{ss'} \quad (II')$$

1) Max Wolf, Sur les termes élémentaires dans l'expression du rayon-vecteur; Stockholm 1890.

Da die Entwicklungen von P und Q nach Potenzen von ξ fortschreiten, brauchen wir Ausdrücke für die Coefficienten der Entwicklung von ξ ; es ist aber

$$\xi = R \frac{1}{1 - \eta^2} = R(1 + \eta^2 + \dots); \text{ also schreiben wir}$$

$$\xi = \Sigma G_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^{s'} \cos[(\nu + \nu'\mu + n\varsigma + n'\mu\varsigma')v + A]$$

wo

oder ausgeschrieben:

$$G_{\nu\nu'} (nn')_{ss'} = H_{\nu\nu'} (nn')_{ss'} + H_{\nu\nu'} (nn')_{s-2, s'} + \dots$$

$$G_{\nu\nu'} (nn')_{00} = H_{\nu\nu'} (nn')_{00}$$

$$G_{\nu\nu'} (nn')_{10} = H_{\nu\nu'} (nn')_{10}, \quad G_{\nu\nu'} (nn')_{01} = H_{\nu\nu'} (nn')_{01}$$

$$G_{\nu\nu'} (nn')_{20} = H_{\nu\nu'} (nn')_{20} + H_{\nu\nu'} (nn')_{00}$$

$$G_{\nu\nu'} (nn')_{11} = H_{\nu\nu'} (nn')_{11}, \quad G_{\nu\nu'} (nn')_{02} = H_{\nu\nu'} (nn')_{02}.$$

Zweite Näherung.

Bevor wir die vollständige Gleichung für q , die in der zweiten Näherung zur Anwendung kommen muss, benützen, brauchen wir strengere Werthe von P und Q, das heisst, wir müssen in den kritischen Coefficienten Glieder zweiter Ordnung der Masse berücksichtigen. Zu diesem Zwecke muss das bereits gefundene ξ in diejenigen Glieder von P resp. Q eingesetzt werden, die darin mit ξ multiplicirt auftreten. Die so in P auftretenden Producte zweier cos werden in cos der Summe und Differenz der Argumente zerlegt — wobei keine neuen Argumente entstehen — so dass das verbesserte P wieder einer cos-Reihe gleich ist. Q hingegen ist durch eine sin-Reihe dargestellt, und durch Ausführung der Substitution von ξ und Zerlegung der entstehenden Producte cos mal sin in sin der Summe und Differenz treten als Verbesserungsglieder — Glieder zweiter Ordnung — auch nur sin auf, so dass Q in zweiter Näherung auch durch eine sin-Reihe gegeben ist. Man kann also schreiben:

$$\frac{\mu_1}{\mu'} (1 - \eta^2) P = \Sigma P_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^{s'} \cos[(\nu + \nu'\mu + n\varsigma + n'\mu\varsigma')v + n\Gamma + n'\Gamma' + n(\pi - \Gamma) + n'(\pi' - \Gamma') + \nu'B] \quad (\text{III})$$

wo die Bedeutung der Indices sofort klar ist. Es ist nun natürlich nicht nothwendig — und nicht möglich — alle Glieder zweiter Ordnung in P zu berücksichtigen, man wird vielmehr nur in den elementären und charakteristischen Gliedern, die bei einer der spätern Integrationen eine Vergrösserung erfahren, Terme zweiter Ordnung, so weit sie überhaupt merklich werden, mitnehmen. Ich habe in den Entwicklungen die Formeln für die Coefficienten $P_{\nu\nu'} (nn')_{ss'}$ als Functionen der B und G aufgestellt, und zwar bis zur zweiten Potenz der Excentricitäten, und der zweiten Ordnung der Masse mit der erwähnten Beschränkung auf die Coefficienten der vier Gruppen von Gliedern. Die einzelnen Gruppen von Gliedern sind in den Formeln, wie schon in der Einleitung erwähnt, meist nur bis $n=3$ oder 4 ausgeschrieben, da man sich die folgenden Producte leicht weiterbilden kann.

Aus dem oben Angedeuteten geht hervor, dass man dieselben Formeln auch zur Bildung der Coefficienten von Q in zweiter Näherung benützen kann; wir schreiben nämlich:

$$\frac{\mu_1}{\mu'} Q = \Sigma Q_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^{s'} \sin[(\nu + \nu'\mu + n\varsigma + n'\mu\varsigma')v + n\Gamma + n'\Gamma' + n(\pi - \Gamma) + n'(\pi' - \Gamma') + \nu'B] \quad (\text{IV})$$

und man findet die Entwicklungsgoefficienten $Q_{\nu\nu'} (nn')_{ss'}$ aus den analogen Formeln für die $P_{\nu\nu'} (nn')_{ss'}$, wenn man statt der B die A einsetzt, und überall das untere Zeichen (—) nimmt; der constante Theil von Q verschwindet natürlich.

Die grösste Sorgfalt erfordern die langperiodischen Glieder in Q, und insbesondere das langperiodisch-elementäre Glied $Q_{00} (1 - 1)_{11} \eta\eta' \sin(\varsigma - \mu\varsigma')v$ das durch die zweimalige Integration den Divisor $(\varsigma - \mu\varsigma')^2$ erhält; in diesem Coefficienten sind daher auch Glieder dritter Ordnung der Masse aufgenommen. Wie Gylden gezeigt hat, hebt sich darin das Glied erster Ordnung: $A_{111} (n - 1, -n + 1)$ gegen das in Gl. (4) vorkommende $\frac{d\eta^2}{dv}$ fort, es ist also dies

$A_{111} (n - 1, -n + 1)$, wie die Klammer anzeigen soll, wegzulassen; die übrigen aus $\frac{d\eta^2}{dv}$ entstehenden Glieder zweiter Ordnung werden als „Zusatzglieder“ später berücksichtigt werden.

So sind also alle elementären und charakteristischen Glieder in P und Q bis zu den zweiten Potenzen der Masse bestimmt, und man kann zur Berechnung des S schreiten; die Gleichung (4), welche S liefert, muss aber vorerst abgekürzt werden zu:

$$S = - \int Q d v$$

und behalten wir uns die Berücksichtigung der dadurch vernachlässigten Glieder zweiter Ordnung für später vor; betrachten wir nun in den Winkelargumenten nur v als Variable, so können wir schreiben:

$$S = \Sigma S_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^s \cos [(\nu + \nu' \mu + n s + n' \mu s') v + n \Gamma + n' \Gamma' + n (\pi - \Gamma) + n' (\pi' - \Gamma') + \nu' B] \quad (V)$$

und haben für die Entwicklungskoeffizienten $S_{\nu\nu'} (nn')_{ss'}$ die Gleichung

$$\begin{aligned} S &= - \int Q d v = - \int \Sigma Q_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^s \sin [(\nu + \nu' \mu + n s + n' \mu s') v + n \Gamma + n' \Gamma' + n (\pi - \Gamma) + n' (\pi' - \Gamma') + \nu' B] \\ &= + \Sigma Q_{\nu\nu'} (nn')_{ss'} \frac{1}{\nu + \nu' \mu + n s + n' \mu s'} \eta^s \eta'^s \cos [(\nu + \nu' \mu + n s + n' \mu s') v + \dots]; \end{aligned}$$

man findet also die $S_{\nu\nu'} (nn')_{ss'}$ aus den $Q_{\nu\nu'} (nn')_{ss'}$ — mit Vernachlässigung der später zu berücksichtigenden Ergänzungsglieder — nach der Formel:

$$S_{\nu\nu'} (nn')_{ss'} = \frac{1}{l_{\nu\nu'} (nn')} Q_{\nu\nu'} (nn')_{ss'} \quad (V')$$

wo wie früher $l_{\nu\nu'} (nn') = \nu + \nu' \mu + n s + n' \mu s'$ ist. Ueber die willkürliche Integrationsconstante, die wir nach unserer Bezeichnung $S_{00} (00)_{00}$ schreiben, soll später passend verfügt werden.

Die so gefundenen Ausdrücke von P und S sind nun in die Gleichung (3) für q einzutragen. Da P und S durch $\cos$ -Reihen dargestellt sind, werden PS und S^2 , nachdem man die Producte zweier $\cos$ zerlegt, auch nur $\cos$ -Glieder liefern. Da ferner

$$q = (q) + R = \eta \cos [(1 - s) v - \pi] + \Sigma J_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^s \cos [(\nu + \nu' \mu + n s + n' \mu s') v + A],$$

wird $\frac{1}{1+S} \frac{dS}{dv} \frac{dq}{dv}$ auch nur zu $\cos$ Veranlassung geben; zur Abkürzung wurde in den folgenden Formeln

$$K_{\nu\nu'} (nn')_{ss'} = J_{\nu\nu'} (nn')_{ss'} \cdot l_{\nu\nu'} (nn')$$

gesetzt, so dass:

$$\frac{dq}{dv} = - (1 - s) \eta \sin [(1 - s) v - \pi] - \Sigma K_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^s \sin [(\nu + \nu' \mu + n s + n' \mu s') v + A]$$

ist. Unterdrücken wir vorläufig das Glied $-\frac{s}{2} \frac{1}{1-\eta^2} \frac{d\eta^2}{dv} \frac{dq}{dv}$, bringen wie früher das nur mit ξ multiplicirte Glied aus

$P: B_{010} (u, -n) \xi$ nach links, so kann die Differentialgleichung für q in der Form geschrieben werden:

$$\frac{d^2 q}{dv^2} + q (1 - \beta) = \Sigma C_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^s \cos [(\nu + \nu' \mu + n s + n' \mu s') v + n \Gamma + n' \Gamma' + n (\pi - \Gamma) + n' (\pi' - \Gamma') + \nu' B] \quad (VI)$$

In den später gegebenen Formeln für die Coefficienten $C_{\nu\nu'} (nn')_{ss'}$, die man erhält, wenn man die in Gleichung (3) vorgeschriebenen Operationen ausführt, die auftretenden Producte zerlegt, und die Coefficienten der betreffenden Argumente zusammenfasst, bin ich, wie schon bei P — für die Coefficienten der vier genannten Gruppen von Gliedern bis zur zweiten Potenz der Masse gegangen; in diesen Gliedern sind die Gruppen von Producten bis $n=3$ oder 4 ausgeschrieben, können also leicht, falls man es für nothwendig hält, fortgesetzt werden. Es ist dies — bis auf das oben erwähnte Glied — die Gleichung für das vollständige q , d. h. $q = (q) + R$, enthält also Glieder aller Formen, und wir müssen die elementären Glieder abtrennen, um die Gleichung für R zu erhalten. Die Integration dieser Gleichung für R geschieht, wie bei der ersten Näherung, durch Division mit den $l_{\nu\nu'} (nn')$; wir schreiben also

$$R = \Sigma D_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^s \cos [(\nu + \nu' \mu + n s + n' \mu s') v + n \Gamma + n' \Gamma' + n (\pi - \Gamma) + n' (\pi' - \Gamma') + \nu' B] \quad (VII)$$

und man findet die $D_{\nu\nu'} (nn')_{ss'}$ nach

$$D_{\nu\nu'} (nn')_{ss'} = \frac{1}{l_{\nu\nu'} (nn')} \cdot C_{\nu\nu'} (nn')_{ss'} \quad (VII')$$

Es sei wiederholt, dass R keine Glieder von der Form $(1 - s) v - \pi$ enthalten darf, die Coefficienten $C_{10} (-10)_{10}$, $C_{10} (0-1)_{01}$ etc. sind also zu unterdrücken, und werden erst bei der Bestimmung von (q) benützt.

Die Zeitreduction.

Die Gleichung (5) liefert uns die Relation zwischen t und v ; wir setzen nun die Länge des Planeten in seiner absoluten Bahn gleich der wahren Länge, also $(v) = v$, dürfen aber dann v nicht mit der wirklichen Zeit t berechnen, sondern führen die „reducirte Zeit“ ζ ein durch die Relation:¹⁾

$$\frac{1/\mu_1}{a^{\frac{3}{2}}} \frac{d\zeta}{dv} = \frac{(1 - e^2)^{\frac{3}{2}}}{[1 + (e)]^2};$$

wenn wir die Differenz zwischen der wahren und der reducirten Zeit mit:

$$t - \zeta = T + T_1$$

bezeichnen, und die mittlere Bewegung $n = \frac{V\mu_1}{a^{\frac{3}{2}}}$ setzen, erhalten wir für die „Zeitreduction“ $T + T_1$ die Gleichung:

$$n \frac{d(T + T_1)}{dv} = \left\{ \frac{[1 + \frac{R}{1 + (e)}]^2}{1 + S} - 1 \right\} \frac{(1 - e^2)^{\frac{3}{2}}}{[1 + (e)]^2}.$$

Entwickelt man diesen Ausdruck, und geht bis zu Grössen dritter Ordnung, so folgt:

$$\begin{aligned} n \frac{d(T + T_1)}{dv} = & S - 2R - 2RS + 3R^2 - 4R^3 \\ & + \{6R - 2S - 12R^2 + 6RS\} \eta \cos \{(1 - e) v - \pi\} \\ & - 3\eta^2 R + \left\{ \frac{3}{2} S - 6R \right\} \eta^2 \cos 2 \{(1 - e) v - \pi\} + \dots \end{aligned}$$

Hier sind nun wieder die gefundenen Werthe von S und R einzuführen und die auftretenden Producte zu zerlegen; es wird in der Zeitreduction genügen, nur in den Gliedern, die durch die Integration vergrößert werden, Ausdrücke zweiter Ordnung mitzunehmen, es ist daher in den Formeln, in denen die Coefficienten obiger Entwicklung wieder in analoger Bezeichnung zusammengeschrieben sind, den langperiodischen Gliedern für beide Typen besondere Sorgfalt gewidmet. Man kann die rechte Seite also schreiben:

$$n \frac{d(T + T_1)}{dv} = \Sigma T_{\nu\nu'} (nn')_{ss'} \eta^s \eta'^{s'} \cos [(\nu + \nu'\mu + n\zeta + n'\mu\zeta') v + n\Gamma + n'\Gamma' + n(\pi - \Gamma) + n'(\pi' - \Gamma') + \nu'B] \quad (\text{VIII})$$

und findet die Ausdrücke für die $T_{\nu\nu'} (nn')_{ss'}$, wenn man alle in obiger Gleichung vorgeschriebenen Substitutionen ausführt, und die Coefficienten gleicher Argumente vereinigt.

Ergänzungsglieder.

Wir haben uns bei den bisherigen Integrationen Vernachlässigungen erlaubt, durch die eine Reihe von Gliedern zweiter Ordnung unberücksichtigt blieb, die wir — sofern sie von einer der vier Gruppen sind — in zweiter Näherung unbedingt in Rechnung ziehen müssen. Wir haben vorerst S aus Q einfach durch Integration: $S = - \int Q dv$ gebildet, während doch Gleichung (4) die strenge Relation liefert. Entwickelt man, mit den bereits gefundenen $Q_{\nu\nu'} (nn')_{ss'}$ und $S_{\nu\nu'} (nn')_{ss'}$ die rechte Seite der Gleichung (4) und vereinigt wie früher die Coefficienten der zusammengehörigen Glieder, so findet man für $-\frac{dS}{dv} = Q$ eine Reihe von Ergänzungsgliedern, die ich $\Sigma \mathcal{A} Q_{\nu\nu'} (nn')_{ss'}$ sin [Argum.] schreibe und die zu den Q zu addiren sind. Der Ausdruck $\frac{1}{2} \frac{1}{1 - \eta^2} \frac{d\eta^2}{dv}$ giebt hierbei zu einer Anzahl von langperiodisch-elementären Gliedern Veranlassung, die ja in S von grösster Wichtigkeit sind. Die Ausdrücke für die $\mathcal{A} Q_{\nu\nu'} (nn')_{ss'}$ sind später

1) Die nähere Entwicklung findet sich bei M. Brendel, Om användningen etc. Seite 14 u. f.

entwickelt. Ferner steht in den Winkelfargumenten überall noch $+ \nu' B = \nu' \{ \mathcal{A}' - \mu \mathcal{A} + n \mu (T + T_1) - n' (T' + T'_1) \}$ welches wir bisher als constant betrachteten; führt man für $n \mu (T + T_1)$ die gefundene Reihe ein, so treten noch Glieder zweiter Ordnung auf, die ich mit $\delta Q_{\nu\nu'}(nn')_{ss'}$ bezeichnete, und die sich im Folgenden entwickelt finden. Schreibe ich also:

$$\delta S = - \int \delta Q d\nu, \quad \mathcal{A} S = - \int \mathcal{A} Q d\nu, \quad \text{oder in der angewandten Bezeichnung}$$

$$\delta S_{\nu\nu'}(nn')_{ss'} = \frac{1}{I_{\nu\nu'}(nn')} \cdot \delta Q_{\nu\nu'}(nn')_{ss'}; \quad \mathcal{A} S_{\nu\nu'}(nn')_{ss'} = \frac{1}{I_{\nu\nu'}(nn')} \cdot \mathcal{A} Q_{\nu\nu'}(nn')_{ss'}$$

so lautet die Gleichung für S:

$$S = \Sigma (S_{\nu\nu'}(nn')_{ss'} + \delta S_{\nu\nu'}(nn')_{ss'} + \mathcal{A} S_{\nu\nu'}(nn')_{ss'}) \eta^s \eta'^s \cos[(\nu + \nu' \mu + n s + n' \mu s') \nu + A]$$

Aus demselben Grund — dass im Winkelfargument das variable $\nu' B$ steht — treten aber auch bei der Integration der Differentialgleichung für ϱ Ergänzungsglieder auf, die ich $\delta C_{\nu\nu'}(nn')_{ss'}$ bezeichne, und später aufgeführt habe; es lautet jetzt die Gleichung für ϱ , die durch Division mit den $\lambda_{\nu\nu'}(nn')$ zu integrieren ist:

$$\frac{d^2 \varrho}{d\nu^2} + \varrho (1 - \beta) = \Sigma (C_{\nu\nu'}(nn')_{ss'} + \delta C_{\nu\nu'}(nn')_{ss'} + 2 \delta S_{\nu\nu'}(nn')_{ss'} + 2 \mathcal{A} S_{\nu\nu'}(nn')_{ss'}) \eta^s \eta'^s \cos[(\nu + \nu' \mu + n s + n' \mu s') \nu + A] \quad (VI')$$

Für R bekommen wir also die Gleichung:

$$R = \Sigma \frac{1}{\lambda_{\nu\nu'}(nn')} (C_{\nu\nu'}(nn')_{ss'} + \delta C_{\nu\nu'}(nn')_{ss'} + 2 \delta S_{\nu\nu'}(nn')_{ss'} + 2 \mathcal{A} S_{\nu\nu'}(nn')_{ss'}) \eta^s \eta'^s \cos[(\nu + \nu' \mu + n s + n' \mu s') \nu + A]$$

wo alle Glieder der Form B wegzulassen sind.

Die Gleichung für (ϱ) in zweiter Näherung.

Wir haben auf Seite 6 eine erste Näherung von (ϱ) gemacht, und kommen nun dazu, die vollständige Gleichung für (ϱ) , also mit Gliedern dritten Grades und zweiter Ordnung der Masse aufzustellen. Da wir in den Formeln jedoch die Coefficienten der Gleichung für ϱ gegeben haben, so besteht unsere Arbeit nur darin, die Glieder der Form B nach (ϱ) zu schreiben; dann haben wir noch die ebenfalls bereits entwickelten Ergänzungsglieder der Form B hinzuzufügen, sowie das früher vernachlässigte Glied $-\frac{3}{2} \frac{1}{1-\eta^2} \frac{d\eta^2}{d\nu} \frac{d\varrho}{d\nu}$, und erhalten die vollständige Gleichung für (ϱ) , die ich abgekürzt folgendermassen schreibe:

$$\begin{aligned} \frac{d^2(\varrho)}{d\nu^2} + (\varrho)(1-\beta) = & a_1 \eta' \cos[(1-\mu s') \nu - \pi'] \\ & + a_2 \eta'^2 \cos[(1-\mu s') \nu - \pi'] \\ & + a_3 \eta'^3 \cos[(1-\mu s') \nu - \pi'] \\ & + a_4 \eta'^3 \cos[(1-s) \nu - \pi] \\ & + a_5 \eta \eta'^2 \cos[(1-s) \nu - \pi] \\ & + a_6 \eta^2 \eta' \cos[(1-2s + \mu s') \nu - 2\pi + \pi'] \\ & + a_7 \eta \eta'^2 \cos[(1+s - 2\mu s') \nu + \pi - 2\pi'] \\ & - \frac{3}{2} \frac{1}{1-\eta^2} \frac{d\eta^2}{d\nu} \frac{d\varrho}{d\nu} \end{aligned}$$

wobei

$$\begin{aligned} \beta &= C_{10}(-10)_{10} + \delta C_{10}(-10)_{10} + 2 \delta S_{10}(-10)_{10} + 2 \mathcal{A} S_{10}(-10)_{10} \\ a_1 &= C_{10}(0-1)_{01} + \delta C_{10}(0-1)_{01} + 2 \delta S_{10}(0-1)_{01} + 2 \mathcal{A} S_{10}(0-1)_{01} \\ a_2 &= C_{10}(0-1)_{21} \\ a_3 &= C_{10}(0-1)_{03} \end{aligned}$$

$$a_4 = C_{10} (-10)_{30}$$

$$a_5 = C_{10} (-10)_{12}$$

$$a_6 = C_{10} (-21)_{21}$$

$$a_7 = C_{10} (1-2)_{12}$$

Bei der Integration darf man nicht wie bei der Integration der Gleichung für R die η und η' als constant ansehen, sondern man muss berücksichtigen, dass η und η' langperiodische Funktionen sind, die wir auf Seite 6 definirten. Die obigen $\cos$ sind also zu zerlegen, und die $x_0, x_1, \dots, x', x'_1, \dots$ einzuführen. Für die $x_0, x_1, \dots$ haben wir durch die erste Integration von (ϱ) Näherungswerte, die $x', x'_1, \dots$ sind aus der Theorie der grossen Planeten bekannt. Setzt man zur Abkürzung:

$$\begin{array}{llll} \beta_1 = x_0^2 + x_1^2 + x_2^2 + x_3^2 & \beta_1' = x'^2 + x_1'^2 + x_2'^2 & & \\ \beta_2 = x_0 x_1 & \beta_5 = x_1 x_2 & \gamma_1 = \frac{1}{2} x_1^3 & \beta_2' = x' x_1' \\ \beta_3 = x_0 x_2 & \beta_6 = x_1 x_3 & \gamma_2 = \frac{1}{2} x_2^3 & \beta_3' = x' x_2' \quad \gamma_1' = \frac{1}{2} x_1'^3 \\ \beta_4 = x_0 x_3 & \beta_7 = x_2 x_3 & \gamma_3 = \frac{1}{2} x_3^3 & \beta_4' = x_1' x_2' \quad \gamma_2' = \frac{1}{2} x_2'^3 \end{array}$$

führt in die Ausdrücke rechts die $\eta \cos(\pi - I) = x_0 + x_1 \cos[(s - \mu s') v + I - I'] + \dots$ etc. ein, entwickelt $-\frac{3}{2} \frac{1}{1-\eta^2} \frac{d\eta^2}{dv} \frac{d\varrho}{dv}$ in derselben Weise und vereinigt die Coefficienten, so lautet die Gleichung für (ϱ) folgendermassen:

$$\begin{aligned} \frac{d^2(\varrho)}{dv^2} + (\varrho)(1-\beta) &= \cos[(1-s)v - I] \{a_2(\beta_2 x' + \beta_3 x_1' + \beta_4 x_2') + a_4(\beta_1 x_0 + \beta_2 x_1 + \beta_3 x_2 + \beta_4 x_3) + a_5 \beta_1' x_0 \\ &+ 2a_6(\beta_2 x' + \beta_3 x_1' + \beta_4 x_2') - \frac{3}{2} x_0 [x_1'(s - \mu s') + x_2'(s - \mu s_1') + x_3'(s - \mu s_2')] \} \\ &+ \cos[(1-\mu s')v - I'] \{a_1 x' + a_2(\beta_1 x' + \beta_5 x_1' + \beta_6 x_2') + a_3(\beta_1' x' + \beta_2' x_1' + \beta_3' x_2') + a_4(\beta_1 x_1 + \beta_2 x_0 + \beta_5 x_2 + \beta_6 x_3) \\ &+ a_5(\beta_1' x_1 + \beta_2' x_2 + \beta_3' x_3) + 2a_6(\beta_5 x_1' + \beta_6 x_2' + \frac{1}{2} \gamma_1 x') + 2a_7(\beta_2' x_2 + \beta_3' x_3 + \frac{1}{2} \beta_1' x_1) \\ &+ \frac{3}{2} x_1 [x_0'(s - \mu s') - x_2'(\mu s' - \mu s_1') - x_3'(\mu s' - \mu s_2')] \} \\ &+ \cos[(1-\mu s_1')v - I''] \{a_1 x_1' + a_2(\beta_1 x_1' + \beta_5 x' + \beta_7 x_2') + a_3(\beta_1' x_1' + \beta_2' x' + \beta_4' x_2') + a_4(\beta_1 x_2 + \beta_3 x_0 + \beta_5 x_1 + \beta_7 x_3) \\ &+ a_5(\beta_1' x_2 + \beta_2' x_1 + \beta_4' x_3) + 2a_6(\beta_5 x' + \beta_7 x_2' + \frac{1}{2} \gamma_2 x_1') + 2a_7(\beta_2' x_1 + \beta_4' x_3 + \frac{1}{2} \gamma_1' x_2) \\ &+ \frac{3}{2} x_2 [x_0'(s - \mu s_1') + x_1'(\mu s' - \mu s_1') - x_3'(\mu s_1' - \mu s_2')] \} \\ &+ \cos[(1-\mu s_2')v - I'''] \{a_1 x_2' + a_2(\beta_1 x_2' + \beta_6 x' + \beta_7 x_1') + a_3(\beta_1' x_2' + \beta_3' x' + \beta_4' x_1') + a_4(\beta_1 x_3 + \beta_4 x_0 + \beta_6 x_1 + \beta_7 x_2) \\ &+ a_5(\beta_1' x_3 + \beta_3' x_1 + \beta_4' x_2) + 2a_6(\beta_6 x' + \beta_7 x_1' + \frac{1}{2} \gamma_3 x_2') + 2a_7(\beta_3' x_1 + \beta_4' x_2 + \frac{1}{2} \gamma_2' x_3) \\ &+ \frac{3}{2} x_3 [x_0'(s - \mu s_2') + x_1'(\mu s' - \mu s_2') + x_2'(\mu s_1' - \mu s_2')] \} \\ &+ \cos[(1-2s + \mu s')v - 2I + I'] \{a_4 \beta_2 x_0 + a_5 \beta_1 x' - \frac{3}{2} x_0^2 x_1 (s - \mu s') \} \\ &+ \cos[(1-2s + \mu s_1')v - 2I + I''] \{a_4 \beta_3 x_0 + a_5 \beta_1 x_1' - \frac{3}{2} x_0^2 x_2 (s - \mu s_1') \} \\ &+ \cos[(1-2s + \mu s_2')v - 2I + I'''] \{a_4 \beta_4 x_0 + a_5 \beta_1 x_2' - \frac{3}{2} x_0^2 x_3 (s - \mu s_2') \} \\ &+ \cos[(1-s + \mu s' - \mu s_1')v - I + I' - I''] \{a_2 \beta_2 x_1' + a_4(\beta_5 x_0 + \beta_2 x_2) + a_5 \beta_2' x_0 + 2a_6 \beta_3 x' - \frac{3}{2} x_0 x_1 x_2 (s - 2\mu s' + \mu s_1') \} \\ &+ \cos[(1-s + \mu s' + \mu s_1')v - I - I' + I''] \{a_2 \beta_3 x' + a_4(\beta_5 x_0 + \beta_3 x_1) + a_5 \beta_2' x_0 + 2a_6 \beta_2 x_1' - \frac{3}{2} x_0 x_1 x_2 (s + \mu s' - 2\mu s_1') \} \\ &+ \cos[(1-s + \mu s' - \mu s_2')v - I + I' - I'''] \{a_2 \beta_2 x_2' + a_4(\beta_2 x_3 + \beta_6 x_0) + a_5 \beta_3' x_0 + 2a_6 \beta_4 x' - \frac{3}{2} x_0 x_1 x_3 (s - 2\mu s' + \mu s_2') \} \\ &+ \cos[(1-s + \mu s' + \mu s_2')v - I - I' + I'''] \{a_2 \beta_4 x' + a_4(\beta_4 x_1 + \beta_6 x_0) + a_5 \beta_3' x_0 + 2a_6 \beta_2 x_2' - \frac{3}{2} x_0 x_1 x_3 (s + \mu s' - 2\mu s_2') \} \\ &+ \cos[(1-s + \mu s_1' - \mu s_2')v - I + I'' - I'''] \{a_2 \beta_3 x_2' + a_4(\beta_3 x_3 + \beta_7 x_0) + a_5 \beta_4' x_0 + 2a_6 \beta_4 x_1' - \frac{3}{2} x_0 x_2 x_3 (s - 2\mu s_1' + \mu s_2') \} \\ &+ \cos[(1-s + \mu s_1' + \mu s_2')v - I - I'' + I'''] \{a_2 \beta_4 x_1' + a_4(\beta_4 x_2 + \beta_7 x_0) + a_5 \beta_4' x_0 + 2a_6 \beta_3 x_2' - \frac{3}{2} x_0 x_2 x_3 (s + \mu s_1' - 2\mu s_2') \} \\ &+ \cos[(1+s-2\mu s')v + I - 2I'] \{a_2 \beta_2 x' + a_4 \beta_2 x_1 + a_7 \beta_1' x_0 + \frac{3}{2} x_0 x_1^2 (s - \mu s') \} \\ &+ \cos[(1+s-2\mu s_1')v + I - I' - I''] \{a_2(\beta_2 x_1' + \beta_3 x') + 2a_4 \beta_2 x_2 + 2a_7 \beta_2' x_0 + \frac{3}{2} x_0 x_1 x_2 (2s - \mu s' - \mu s_1') \} \\ &+ \cos[(1+s-2\mu s_2')v + I - I' - I'''] \{a_2(\beta_2 x_2' + \beta_4 x') + 2a_4 \beta_2 x_3 + 2a_7 \beta_3' x_0 + \frac{3}{2} x_0 x_1 x_3 (2s - \mu s' - \mu s_2') \} \\ &+ \cos[(1+s-2\mu s_1')v + I - 2I''] \{a_2 \beta_3 x_1' + a_4 \beta_3 x_2 + a_7 \gamma_1' x_0 + \frac{3}{2} x_0 x_2^2 (s - \mu s_1') \} \\ &+ \cos[(1+s-2\mu s_1' - \mu s_2')v + I - I'' - I'''] \{a_2(\beta_3 x_2' + \beta_4 x_1') + 2a_4 \beta_3 x_3 + 2a_7 \beta_4' x_0 + \frac{3}{2} x_0 x_2 x_3 (2s - \mu s_1' - \mu s_2') \} \\ &+ \cos[(1+s-2\mu s_2')v + I - 2I'''] \{a_2 \beta_4 x_2' + a_4 \beta_4 x_3 + a_7 \gamma_2' x_0 + \frac{3}{2} x_0 x_3^2 (s - \mu s_2') \} \end{aligned}$$

$$\begin{aligned}
 & + \cos [(1-2\mu\varsigma' + \mu\sigma_1') \nu - 2\Gamma' + \Gamma''] \{a_2\beta_5\kappa' + a_3\beta_2'\kappa' + a_4\beta_5\kappa_1 + a_5\beta_2'\kappa_1 + a_6\gamma_1\kappa_1' + a_7\beta_1'\kappa_2 - \frac{3}{2}\kappa_1^2\kappa_2(\mu\varsigma' - \mu\sigma_1')\} \\
 & + \cos [(1-2\mu\varsigma' + \mu\sigma_2') \nu - 2\Gamma' + \Gamma'''] \{a_2\beta_6\kappa' + a_3\beta_3'\kappa' + a_4\beta_6\kappa_1 + a_5\beta_3'\kappa_1 + a_6\gamma_1\kappa_2' + a_7\beta_1'\kappa_3 - \frac{3}{2}\kappa_1^2\kappa_3(\mu\varsigma' - \mu\sigma_2')\} \\
 & + \cos [(1-\mu\varsigma' + \mu\sigma_1' - \mu\sigma_2') \nu - \Gamma' + \Gamma'' - \Gamma'''] \{a_2(\beta_5\kappa_2' + \beta_7\kappa') + 2a_3\beta_4'\kappa' + 2a_4\beta_5\kappa_3 + a_5(\beta_4'\kappa_1 + \beta_2'\kappa_3) \\
 & \quad + 2a_6\beta_6\kappa_1' + 2a_7\beta_3'\kappa_2 - \frac{3}{2}\kappa_1\kappa_2\kappa_3(\mu\varsigma' - 2\mu\sigma_1' + \mu\sigma_2')\} \\
 & + \cos [(1-\mu\varsigma' - \mu\sigma_1' + \mu\sigma_2') \nu - \Gamma' - \Gamma'' + \Gamma'''] \{a_2(\beta_6\kappa_1' + \beta_7\kappa') + 2a_3\beta_4'\kappa' + 2a_4\beta_6\kappa_2 + a_5(\beta_4'\kappa_1 + \beta_3'\kappa_2) \\
 & \quad + 2a_6\beta_5\kappa_2' + 2a_7\beta_2'\kappa_3 - \frac{3}{2}\kappa_1\kappa_2\kappa_3(\mu\varsigma' + \mu\sigma_1' - 2\mu\sigma_2')\} \\
 & + \cos [(1 + \mu\varsigma' - 2\mu\sigma_1') \nu + \Gamma' - 2\Gamma''] \{a_2\beta_5\kappa_1' + a_3\beta_2'\kappa_1' + a_4\beta_5\kappa_2 + a_5\beta_2'\kappa_2 + a_6\gamma_2\kappa' + a_7\gamma_1\kappa_1 + \frac{3}{2}\kappa_1\kappa_2^2(\mu\varsigma' - \mu\sigma_1')\} \\
 & + \cos [(1 + \mu\varsigma' - \mu\sigma_1' - \mu\sigma_2') \nu + \Gamma' - \Gamma'' - \Gamma'''] \{a_2(\beta_5\kappa_2' + \beta_6\kappa_1') + 2a_3\beta_2'\kappa_2' + 2a_4\beta_5\kappa_3 + a_5(\beta_2'\kappa_3 + \beta_3'\kappa_2) \\
 & \quad + 2a_6\beta_7\kappa' + 2a_7\beta_4'\kappa_1 + \frac{3}{2}(2\mu\varsigma' - \mu\sigma_1' - \mu\sigma_2')\} \\
 & + \cos [(1 + \mu\varsigma' - 2\mu\sigma_2') \nu + \Gamma' - 2\Gamma'''] \{a_2\beta_6\kappa_2' + a_3\beta_3'\kappa_2' + a_4\beta_6\kappa_3 + a_5\beta_3'\kappa_3 + a_6\gamma_3\kappa' + a_7\gamma_2\kappa_1 + \frac{3}{2}\kappa_1\kappa_3^2(\mu\varsigma' - \mu\sigma_2')\} \\
 & + \cos [(1 + \mu\sigma_1' - 2\mu\sigma_2') \nu + \Gamma'' - 2\Gamma'''] \{a_2\beta_7\kappa_2' + a_3\beta_4'\kappa_2' + a_4\beta_7\kappa_3 + a_5\beta_4'\kappa_3 + a_6\gamma_3\kappa_1' + a_7\gamma_2'\kappa_2 + \frac{3}{2}\kappa_1\kappa_3^2(\mu\sigma_1' - \mu\sigma_2')\} \\
 & + \cos [(1-2\mu\sigma_1' + \mu\sigma_2') \nu - 2\Gamma'' + \Gamma'''] \{a_2\beta_7\kappa_1' + a_3\beta_4'\kappa_1' + a_4\beta_7\kappa_2 + a_5\beta_4'\kappa_2 + a_6\gamma_2\kappa_2' + a_7\gamma_1\kappa_3 - \frac{3}{2}\kappa_1^2\kappa_3(\mu\sigma_1' - \mu\sigma_2')\} \\
 & + \cos [(1-4\varsigma+3\mu\varsigma') \nu - 4\Gamma+3\Gamma'] \{-a_6\gamma_1\kappa'\} \\
 & + \cos [(1-4\varsigma+2\mu\varsigma'+\mu\sigma_1') \nu - 4\Gamma+2\Gamma'+\Gamma''] \{-a_6\gamma_1\kappa_1'\} \\
 & + \cos [(1-4\varsigma+2\mu\varsigma'+\mu\sigma_2') \nu - 4\Gamma+2\Gamma'+\Gamma'''] \{-a_6\gamma_1\kappa_2'\} \\
 & + \cos [(1-4\varsigma+\mu\varsigma'+2\mu\sigma_1') \nu - 4\Gamma+\Gamma'+2\Gamma''] \{-a_6\gamma_2\kappa'\} \\
 & + \cos [(1-4\varsigma+\mu\varsigma'+2\mu\sigma_2') \nu - 4\Gamma+\Gamma'+2\Gamma'''] \{-a_6\gamma_3\kappa'\} \\
 & + \cos [(1-4\varsigma+3\mu\sigma_1') \nu - 4\Gamma+3\Gamma'] \{-a_6\gamma_2\kappa_1'\} \\
 & + \cos [(1-4\varsigma+2\mu\sigma_1'+\mu\sigma_2') \nu - 4\Gamma+2\Gamma''+\Gamma'''] \{-a_6\gamma_2\kappa_2'\} \\
 & + \cos [(1-4\varsigma+\mu\sigma_1'+2\mu\sigma_2') \nu - 4\Gamma+\Gamma''+2\Gamma'''] \{-a_6\gamma_3\kappa_1'\} \\
 & + \cos [(1-4\varsigma+3\mu\sigma_2') \nu - 4\Gamma+3\Gamma'''] \{-a_6\gamma_3\kappa_2'\} \\
 & + \cos [(1+\varsigma-4\mu\varsigma'+2\mu\sigma_1') \nu + \Gamma-4\Gamma'+2\Gamma''] \{-a_7\gamma_1'\kappa_0\} \\
 & + \cos [(1+\varsigma-4\mu\varsigma'+2\mu\sigma_2') \nu + \Gamma-4\Gamma'+2\Gamma'''] \{-a_7\gamma_2'\kappa_0\} \\
 & + \cos [(1-3\mu\varsigma'+2\mu\sigma_1') \nu - 3\Gamma'+2\Gamma''] \{-a_7\gamma_1'\kappa_1\} \\
 & + \cos [(1-3\mu\varsigma'+2\mu\sigma_2') \nu - 3\Gamma'+2\Gamma'''] \{-a_7\gamma_2'\kappa_1\} \\
 & + \cos [(1-4\mu\varsigma'+3\mu\sigma_1') \nu - 4\Gamma'+3\Gamma''] \{-a_7\gamma_1'\kappa_2\} \\
 & + \cos [(1-4\mu\varsigma'+2\mu\sigma_1'+\mu\sigma_2') \nu - 4\Gamma'+2\Gamma''+\Gamma'''] \{-a_7\gamma_1'\kappa_3\} \\
 & + \cos [(1-4\mu\varsigma'+\mu\sigma_1'+2\mu\sigma_2') \nu - 4\Gamma'+\Gamma''+2\Gamma'''] \{-a_7\gamma_2'\kappa_2\} \\
 & + \cos [(1-4\mu\varsigma'+3\mu\sigma_2') \nu - 4\Gamma'+3\Gamma'''] \{-a_7\gamma_2'\kappa_3\}
 \end{aligned}$$

Zur Controlle kann man die Summe aller Coefficienten, ohne Rücksicht auf die cos, bilden, und es muss sein:

$$\begin{aligned}
 \Sigma \{ \dots \} = & a_1 (\kappa' + \kappa_1' + \kappa_2') + a_2 (\kappa_0 + \kappa_1 + \kappa_2 + \kappa_3)^2 (\kappa' + \kappa_1' + \kappa_2') + a_3 (\kappa' + \kappa_1' + \kappa_2')^3 + a_4 (\kappa_0 + \kappa_1 + \kappa_2 + \kappa_3)^3 \\
 & + a_5 (\kappa_0 + \kappa_1 + \kappa_2 + \kappa_3) (\kappa' + \kappa_1' + \kappa_2')^2 + a_6 (\kappa_0 + \kappa_1 + \kappa_2 + \kappa_3)^2 (\kappa' + \kappa_1' + \kappa_2') + a_7 (\kappa_0 + \kappa_1 + \kappa_2 + \kappa_3) (\kappa' + \kappa_1' + \kappa_2')^2
 \end{aligned}$$

Wir hatten für Q eine sinus-Reihe (IV) gefunden, und dann nach Gleichung (V') S gebildet; diese Integrationsmethode, die η und η' als constant ansieht, ist bei dem langperiodisch-elementären Glied $Q_{00} (1-1)_{11} \eta \eta' \sin [(s-\mu\varsigma') \nu + \pi - \pi']$ nicht statthaft, vielmehr muss der Werth von η und η' als langperiodische Funktion hierin eingesetzt werden, und eine Zerlegung der Producte ähnlich wie bei (q) vorgenommen werden; schreiben wir also zur Abkürzung:

$$Q_{00} (1-1)_{11} + \delta Q_{00} (1-1)_{11} + \mathcal{A} Q_{00} (1-1)_{11} = b$$

so lautet dies Glied nach seiner Zerlegung:

$$\begin{aligned}
 b \eta \eta' \sin [(s-\mu\varsigma') \nu + \pi - \pi'] = & b \kappa_0 \kappa' \sin [(s-\mu\varsigma') \nu + \Gamma - \Gamma'] \\
 & + b \kappa_0 \kappa_1' \sin [(s-\mu\sigma_1') \nu + \Gamma - \Gamma''] \\
 & + b \kappa_0 \kappa_2' \sin [(s-\mu\sigma_2') \nu + \Gamma - \Gamma'''] \\
 & + b (\kappa_1 \kappa_1' - \kappa_2 \kappa') \sin [(\mu\varsigma' - \mu\sigma_1') \nu + \Gamma' - \Gamma''] \\
 & + b (\kappa_1 \kappa_2' - \kappa_3 \kappa') \sin [(\mu\varsigma' - \mu\sigma_2') \nu + \Gamma' - \Gamma'''] \\
 & + b (\kappa_2 \kappa_2' - \kappa_3 \kappa_1') \sin [(\mu\sigma_1' - \mu\sigma_2') \nu + \Gamma'' - \Gamma''']
 \end{aligned}$$

schreiben wir also den Coefficienten von $\sin [(n\varsigma + n'\mu\varsigma' + m\mu\sigma_1' + m'\mu\sigma_2') \nu + n\Gamma + n'\Gamma' + m\Gamma'' + m'\Gamma''']$ symbolisch $Q_{00} (nn' mm')$, so lautet die Gleichung (V) für S nach der Zerlegung:

$$\begin{aligned}
 S = \Sigma (S_{pp'} (nn')_{ss'} + \dots) \eta^s \eta'^{s'} \cos [(\nu + \nu'\mu + n\varsigma + n'\mu\varsigma') \nu + A] + \Sigma S_{00} (nn' mm') \cos [(n\varsigma + n'\mu\varsigma' + m\mu\sigma_1' + m'\mu\sigma_2') \nu \\
 + n\Gamma + n'\Gamma' + m\Gamma'' + m'\Gamma''']
 \end{aligned}$$

wo

$$S_{00} (nn' mm') = \frac{Q_{00} (nn' mm')}{n\varsigma + n'\mu\varsigma' + m\mu\sigma_1' + m'\mu\sigma_2'}$$

und die Gleichung (VI) für R:

$$\frac{d^3 R}{dv^2} + R(1-\beta) = \Sigma(C_{\nu\nu'}(nn')_{ss'} + \dots) \eta^s \eta'^s \cos[(\nu + \nu'\mu + n\zeta + n'\mu\zeta')\nu + A] + \Sigma 2 S_{00}(nn' mm') \cos[(n\zeta + n'\mu\zeta' + m\mu\sigma_1' + m'\mu\sigma_2')\nu + n\Gamma + n'\Gamma' + m\Gamma'' + m'\Gamma''']$$

Dieselbe Operation muss mit dem langperiodischen Glied in der Zeitreduction vor deren Integration vorgenommen werden; in den Formeln für die T, die ja nach Potenzen von η und η' geordnet sind, ist also das langperiodische Glied $S_{00}(1-1)_{11}$, das wir soeben zerlegt haben, nicht aufgenommen — es wird also jetzt erst angebracht; das Glied

$$T_{00}(1-1)_{11} \eta \eta' \cos[(\zeta - \mu\zeta')\nu + \pi - \pi']$$

zerlegen wir analog, ebenso die nur η^2 und η'^2 enthaltenden Glieder, und schreiben abkürzend:

$$T_{00}(00)_{20} = c_0 \quad T_{00}(00)_{02} = c' \quad T_{00}(1-1)_{11} = c_1$$

dann lautet das Resultat der Zerlegung:

$$\begin{aligned} c\eta^2 + c'\eta'^2 + c_1 \eta \eta' \cos[(\zeta - \mu\zeta')\nu + \pi - \pi'] &= c\beta_1 + c'\beta_1' + c_1(\kappa_1\kappa' + \kappa_2\kappa_1' + \kappa_3\kappa_2') \\ &+ \{2c\beta_2 + c_1\kappa_0\kappa'\} \cos[(\zeta - \mu\zeta')\nu + \Gamma - \Gamma'] \\ &+ \{2c\beta_3 + c_1\kappa_0\kappa_1'\} \cos[(\zeta - \mu\sigma_1')\nu + \Gamma - \Gamma''] \\ &+ \{2c\beta_4 + c_1\kappa_0\kappa_2'\} \cos[(\zeta - \mu\sigma_2')\nu + \Gamma - \Gamma'''] \\ &+ \{2c\beta_5 + 2c'\beta_2' + c_1(\kappa_1\kappa_1' + \kappa_2\kappa_2')\} \cos[(\mu\zeta' - \mu\sigma_1')\nu + \Gamma' - \Gamma''] \\ &+ \{2c\beta_6 + 2c'\beta_3' + c_1(\kappa_1\kappa_2' + \kappa_3\kappa_3')\} \cos[(\mu\zeta' - \mu\sigma_2')\nu + \Gamma' - \Gamma'''] \\ &+ \{2c\beta_7 + 2c'\beta_4' + c_1(\kappa_2\kappa_2' + \kappa_3\kappa_1')\} \cos[(\mu\sigma_1' - \mu\sigma_2')\nu + \Gamma'' - \Gamma'''] \end{aligned}$$

Bezeichnen wir wieder hierin den Coefficienten von $\cos[(n\zeta + n'\mu\zeta' + m\mu\sigma_1' + m'\mu\sigma_2')\nu + n\Gamma + n'\Gamma' + m\Gamma'' + m'\Gamma''']$ mit $T_{00}(nn' mm')$, so lautet die Gleichung für die Zeitreduction, wenn wir das zerlegte Glied $S_{00}(1-1)_{11}$ aufnehmen und alles vereinigen:

$$\begin{aligned} \frac{d(T + T_1)}{dv} &= T_{00}(00)_{00} + c\beta_1 + c'\beta_1' + c_1(\kappa_1\kappa' + \kappa_2\kappa_1' + \kappa_3\kappa_2') \\ &+ \Sigma T_{\nu\nu'}(nn')_{ss'} \eta^s \eta'^s \cos[(\nu + \nu'\mu + n\zeta + n'\mu\zeta')\nu + A] \\ &+ \Sigma \left\{ T_{00}(nn' mm') + S_{00}(nn' mm') - 2 S_{00}(nn' mm') \frac{1}{\lambda_{00}(nn' mm')} \right\} \\ &\cdot \cos[(n\zeta + n'\mu\zeta' + m\mu\sigma_1' + m'\mu\sigma_2')\nu + n\Gamma + n'\Gamma' + m\Gamma'' + m'\Gamma'''] \end{aligned}$$

Die willkürliche Integrationsconstante $S_{00}(00)_{00}$ bestimmen wir jetzt so, dass der constante Theil in $\frac{d(T + T_1)}{dv}$ null wird.

Argument	Exc.	C o e f f i c i e n t
—	—	$H_{00}(00)_{00} = -B_{000}(n, -n)$
$1-\mu$	—	$H_{1-1}(00)_{00} = -B_{100}(n, -n) + \frac{2}{l_{1-1}(00)} A_{100}(n, -n)$
$2-2\mu$	—	$H_{2-2}(00)_{00} = -B_{200}(n, -n) + \frac{2}{l_{2-2}(00)} A_{200}(n, -n)$
$3-3\mu$	—	$H_{3-3}(00)_{00} = -B_{300}(n, -n) + \frac{2}{l_{3-3}(00)} A_{300}(n, -n)$
$4-4\mu$	—	$H_{4-4}(00)_{00} = -B_{400}(n, -n) + \frac{2}{l_{4-4}(00)} A_{400}(n, -n)$
$5-5\mu$	—	$H_{5-5}(00)_{00} = -B_{500}(n, -n) + \frac{2}{l_{5-5}(00)} A_{500}(n, -n)$
u. s. w.		

Argument	Exc.	Coefficient
1—s	η	$H_{10}(-10)_{10} = -B_{010}(n+1, -n) - B_{010}(n-1, -n)$
2— μ —s	η	$H_{2-1}(-10)_{10} = -B_{110}(n+1, -n) + \frac{2}{1_{2-1}(-10)} A_{110}(n+1, -n) - \frac{1}{2} A_{100}(n, -n)$
3—2 μ —s	η	$H_{3-2}(-10)_{10} = -B_{210}(n+1, -n) + \frac{2}{1_{3-2}(-10)} A_{210}(n+1, -n) - \frac{1}{2} A_{200}(n, -n)$
4—3 μ —s	η	$H_{4-3}(-10)_{10} = -B_{310}(n+1, -n) + \frac{2}{1_{4-3}(-10)} A_{310}(n+1, -n) - \frac{1}{2} A_{300}(n, -n)$
5—4 μ —s	η	$H_{5-4}(-10)_{10} = -B_{410}(n+1, -n) + \frac{2}{1_{5-4}(-10)} A_{410}(n+1, -n) - \frac{1}{2} A_{400}(n, -n)$ u. s. w.
μ —s	η	$H_{01}(-10)_{10} = -B_{110}(n-1, -n) - \frac{2}{1_{01}(-10)} A_{110}(n-1, -n) + \frac{1}{2} A_{100}(n, -n)$
1—2 μ +s	η	$H_{1-2}(10)_{10} = -B_{210}(n-1, -n) + \frac{2}{1_{1-2}(10)} A_{210}(n-1, -n) + \frac{1}{2} A_{200}(n, -n)$
2—3 μ +s	η	$H_{2-3}(10)_{10} = -B_{310}(n-1, -n) + \frac{2}{1_{2-3}(10)} A_{310}(n-1, -n) + \frac{1}{2} A_{300}(n, -n)$
3—4 μ +s	η	$H_{3-4}(10)_{10} = -B_{410}(n-1, -n) + \frac{2}{1_{3-4}(10)} A_{410}(n-1, -n) + \frac{1}{2} A_{400}(n, -n)$
4—5 μ +s	η	$H_{4-5}(10)_{10} = -B_{510}(n-1, -n) + \frac{2}{1_{4-5}(10)} A_{510}(n-1, -n) + \frac{1}{2} A_{500}(n, -n)$ u. s. w.
1— μ s'	η'	$H_{10}(0-1)_{01} = -B_{101}(n, -n+1) + \frac{2}{1_{10}(0-1)} A_{101}(n, -n+1)$
2— μ — μ s'	η'	$H_{2-1}(0-1)_{01} = -B_{201}(n, -n+1) + \frac{2}{1_{2-1}(0-1)} A_{201}(n, -n+1)$
3—2 μ — μ s'	η'	$H_{3-2}(0-1)_{01} = -B_{301}(n, -n+1) + \frac{2}{1_{3-2}(0-1)} A_{301}(n, -n+1)$
4—3 μ — μ s'	η'	$H_{4-3}(0-1)_{01} = -B_{401}(n, -n+1) + \frac{2}{1_{4-3}(0-1)} A_{401}(n, -n+1)$
5—4 μ — μ s'	η'	$H_{5-4}(0-1)_{01} = -B_{501}(n, -n+1) + \frac{2}{1_{5-4}(0-1)} A_{501}(n, -n+1)$ u. s. w.
μ — μ s'	η'	$H_{01}(0-1)_{01} = -B_{001}(n, -n-1) - B_{001}(n, -n+1)$
1—2 μ + μ s'	η'	$H_{1-2}(01)_{01} = -B_{101}(n, -n-1) + \frac{2}{1_{1-2}(01)} A_{101}(n, -n-1)$
2—3 μ + μ s'	η'	$H_{2-3}(01)_{01} = -B_{201}(n, -n-1) + \frac{2}{1_{2-3}(01)} A_{201}(n, -n-1)$
3—4 μ + μ s'	η'	$H_{3-4}(01)_{01} = -B_{301}(n, -n-1) + \frac{2}{1_{3-4}(01)} A_{301}(n, -n-1)$
4—5 μ + μ s'	η'	$H_{4-5}(01)_{01} = -B_{401}(n, -n-1) + \frac{2}{1_{4-5}(01)} A_{401}(n, -n-1)$ u. s. w.
—	η^2	$H_{00}(00)_{20} = -B_{020}(n, -n) - B_{000}(n, -n)_{10}$
1— μ	η^2	$H_{1-1}(00)_{20} = -B_{120}(n, -n) - B_{100}(n, -n)_{10} + \frac{2}{1_{1-1}(00)} [A_{120}(n, -n) + A_{100}(n, -n)_{10}]$ $+ \frac{1}{2} A_{110}(n+1, -n) - \frac{1}{2} A_{110}(n-1, -n)$

Argument	Exc.	Coefficient	
$2-2\mu$	η^2	$H_{2-2}(00)_{20}$	$= -B_{220}(n, -n) - B_{200}(n, -n)_{10} + \frac{2}{I_{2-2}(00)} [A_{220}(n, -n) + A_{200}(n, -n)_{10}]$ $+ \frac{1}{2} A_{210}(n+1, -n) - \frac{1}{2} A_{210}(n-1, -n)$
$3-3\mu$	η^2	$H_{3-3}(00)_{20}$	$= -B_{320}(n, -n) - B_{300}(n, -n)_{10} + \frac{2}{I_{3-3}(00)} [A_{320}(n, -n) + A_{300}(n, -n)_{10}]$ $+ \frac{1}{2} A_{310}(n+1, -n) - \frac{1}{2} A_{310}(n-1, -n)$
$4-4\mu$	η^2	$H_{4-4}(00)_{20}$	$= -B_{420}(n, -n) - B_{400}(n, -n)_{10} + \frac{2}{I_{4-4}(00)} [A_{420}(n, -n) + A_{400}(n, -n)_{10}]$ $+ \frac{1}{2} A_{410}(n+1, -n) - \frac{1}{2} A_{410}(n-1, -n)$ u. s. w.
$2-2s$	η^2	$H_{20}(-20)_{20}$	$= -B_{020}(n+2, -n) - B_{020}(n-2, -n)$
$3-\mu-2s$	η^2	$H_{3-1}(-20)_{20}$	$= -B_{120}(n+2, -n) + \frac{2}{I_{3-1}(-20)} A_{120}(n+2, -n) - \frac{1}{2} A_{110}(n+1, -n)$
$4-2\mu-2s$	η^2	$H_{4-2}(-20)_{20}$	$= -B_{220}(n+2, -n) + \frac{2}{I_{4-2}(-20)} A_{220}(n+2, -n) - \frac{1}{2} A_{210}(n+1, -n)$
$5-3\mu-2s$	η^2	$H_{5-3}(-20)_{20}$	$= -B_{320}(n+2, -n) + \frac{2}{I_{5-3}(-20)} A_{320}(n+2, -n) - \frac{1}{2} A_{310}(n+1, -n)$
$6-4\mu-2s$	η^2	$H_{6-4}(-20)_{20}$	$= -B_{420}(n+2, -n) + \frac{2}{I_{6-4}(-20)} A_{420}(n+2, -n) - \frac{1}{2} A_{410}(n+1, -n)$ u. s. w.
$1+\mu-2s$	η^2	$H_{11}(-20)_{20}$	$= -B_{120}(n-2, -n) - \frac{2}{I_{11}(-20)} A_{120}(n-2, -n) + \frac{1}{2} A_{110}(n-1, -n)$
$2\mu-2s$	η^2	$H_{02}(-20)_{20}$	$= -B_{220}(n-2, -n) - \frac{2}{I_{02}(-20)} A_{220}(n-2, -n) + \frac{1}{2} A_{210}(n-1, -n)$
$1-3\mu+2s$	η^2	$H_{1-3}(20)_{20}$	$= -B_{320}(n-2, -n) + \frac{2}{I_{1-3}(20)} A_{320}(n-2, -n) + \frac{1}{2} A_{310}(n-1, -n)$
$2-4\mu+2s$	η^2	$H_{2-4}(20)_{20}$	$= -B_{420}(n-2, -n) + \frac{2}{I_{2-4}(20)} A_{420}(n-2, -n) + \frac{1}{2} A_{410}(n-1, -n)$
$3-5\mu+2s$	η^2	$H_{3-5}(20)_{20}$	$= -B_{520}(n-2, -n) + \frac{2}{I_{3-5}(20)} A_{520}(n-2, -n) + \frac{1}{2} A_{510}(n-1, -n)$ u. s. w.
$1+\mu-s-\mu s'$	$\eta\eta'$	$H_{11}(-1-1)_{11}$	$= -B_{011}(n+1, -n+1) - B_{011}(n-1, -n-1)$
$2-s-\mu s'$	$\eta\eta'$	$H_{20}(-1-1)_{11}$	$= -B_{111}(n+1, -n+1) + \frac{2}{I_{20}(-1-1)} A_{111}(n+1, -n+1) - \frac{1}{2} A_{101}(n, -n+1)$
$3-\mu-s-\mu s'$	$\eta\eta'$	$H_{3-1}(-1-1)_{11}$	$= -B_{211}(n+1, -n+1) + \frac{2}{I_{3-1}(-1-1)} A_{211}(n+1, -n+1) - \frac{1}{2} A_{201}(n, -n+1)$
$4-2\mu-s-\mu s'$	$\eta\eta'$	$H_{4-2}(-1-1)_{11}$	$= -B_{311}(n+1, -n+1) + \frac{2}{I_{4-2}(-1-1)} A_{311}(n+1, -n+1) - \frac{1}{2} A_{301}(n, -n+1)$
$5-3\mu-s-\mu s'$	$\eta\eta'$	$H_{5-3}(-1-1)_{11}$	$= -B_{411}(n+1, -n+1) + \frac{2}{I_{5-3}(-1-1)} A_{411}(n+1, -n+1) - \frac{1}{2} A_{401}(n, -n+1)$ u. s. w.
$2\mu-s-\mu s'$	$\eta\eta'$	$H_{02}(-1-1)_{11}$	$= -B_{111}(n-1, -n-1) - \frac{2}{I_{02}(-1-1)} A_{111}(n-1, -n-1) + \frac{1}{2} A_{101}(n, -n-1)$
$1-3\mu+s+\mu s'$	$\eta\eta'$	$H_{1-3}(11)_{11}$	$= -B_{211}(n-1, -n-1) + \frac{2}{I_{1-3}(11)} A_{211}(n-1, -n-1) + \frac{1}{2} A_{201}(n, -n-1)$

Argument	Exc.	Coefficient
$2-4\mu+s+\mu s'$	$\eta\eta'$	$H_{2-4}(11)_{11} = -B_{311}(n-1, -n-1) + \frac{2}{I_{2-4}(11)} A_{311}(n-1, -n-1) + \frac{1}{2} A_{301}(n, -n-1)$
$3-5\mu+s+\mu s'$	$\eta\eta'$	$H_{3-5}(11)_{11} = -B_{411}(n-1, -n-1) + \frac{2}{I_{3-5}(11)} A_{411}(n-1, -n-1) + \frac{1}{2} A_{401}(n, -n-1)$ u. s. w.
$1-\mu-s+\mu s'$	$\eta\eta'$	$H_{1-1}(-11)_{11} = -B_{011}(n+1, -n-1) - B_{011}(n-1, -n+1)$
$2-2\mu-s+\mu s'$	$\eta\eta'$	$H_{2-2}(-11)_{11} = -B_{111}(n+1, -n-1) + \frac{2}{I_{2-2}(-11)} A_{111}(n+1, -n-1) - \frac{1}{2} A_{101}(n, -n-1)$
$3-3\mu-s+\mu s'$	$\eta\eta'$	$H_{3-3}(-11)_{11} = -B_{211}(n+1, -n-1) + \frac{2}{I_{3-3}(-11)} A_{211}(n+1, -n-1) - \frac{1}{2} A_{201}(n, -n-1)$
$4-4\mu-s+\mu s'$	$\eta\eta'$	$H_{4-4}(-11)_{11} = -B_{311}(n+1, -n-1) + \frac{2}{I_{4-4}(-11)} A_{311}(n+1, -n-1) - \frac{1}{2} A_{301}(n, -n-1)$
$5-5\mu-s+\mu s'$	$\eta\eta'$	$H_{5-5}(-11)_{11} = -B_{411}(n+1, -n-1) + \frac{2}{I_{5-5}(-11)} A_{411}(n+1, -n-1) - \frac{1}{2} A_{401}(n, -n-1)$ u. s. w.
$s-\mu s'$	$\eta\eta'$	$H_{00}(1-1)_{11} = -B_{111}(n-1, -n+1) + \frac{1}{2} A_{101}(n, -n+1)$
$1-\mu+s-\mu s'$	$\eta\eta'$	$H_{1-1}(1-1)_{11} = -B_{211}(n-1, -n+1) + \frac{2}{I_{1-1}(1-1)} A_{211}(n-1, -n+1) + \frac{1}{2} A_{201}(n, -n+1)$
$2-2\mu+s-\mu s'$	$\eta\eta'$	$H_{2-2}(1-1)_{11} = -B_{311}(n-1, -n+1) + \frac{2}{I_{2-2}(1-1)} A_{311}(n-1, -n+1) + \frac{1}{2} A_{301}(n, -n+1)$
$3-3\mu+s-\mu s'$	$\eta\eta'$	$H_{3-3}(1-1)_{11} = -B_{411}(n-1, -n+1) + \frac{2}{I_{3-3}(1-1)} A_{411}(n-1, -n+1) + \frac{1}{2} A_{401}(n, -n+1)$
$4-4\mu+s-\mu s'$	$\eta\eta'$	$H_{4-4}(1-1)_{11} = -B_{511}(n-1, -n+1) + \frac{2}{I_{4-4}(1-1)} A_{511}(n-1, -n+1) + \frac{1}{2} A_{501}(n, -n+1)$ u. s. w.
—	η'^2	$H_{00}(00)_{02} = -B_{002}(n, -n) - B_{000}(n, -n)_{01}$
$1-\mu$	η'^2	$H_{1-1}(00)_{02} = -B_{102}(n, -n) - B_{100}(n, -n)_{01} + \frac{2}{I_{1-1}(00)} [A_{102}(n, -n) + A_{100}(n, -n)_{01}]$
$2-2\mu$	η'^2	$H_{2-2}(00)_{02} = -B_{202}(n, -n) - B_{200}(n, -n)_{01} + \frac{2}{I_{2-2}(00)} [A_{202}(n, -n) + A_{200}(n, -n)_{01}]$
$3-3\mu$	η'^2	$H_{3-3}(00)_{02} = -B_{302}(n, -n) - B_{300}(n, -n)_{01} + \frac{2}{I_{3-3}(00)} [A_{302}(n, -n) + A_{300}(n, -n)_{01}]$
$4-4\mu$	η'^2	$H_{4-4}(00)_{02} = -B_{402}(n, -n) - B_{400}(n, -n)_{01} + \frac{2}{I_{4-4}(00)} [A_{402}(n, -n) + A_{400}(n, -n)_{01}]$ u. s. w.
$2\mu-2\mu s'$	η'^2	$H_{02}(0-2)_{02} = -B_{002}(n, -n+2) - B_{002}(n, -n-2)$
$1+\mu-2\mu s'$	η'^2	$H_{11}(0-2)_{02} = -B_{102}(n, -n+2) + \frac{2}{I_{11}(0-2)} A_{102}(n, -n+2)$
$2-2\mu s'$	η'^2	$H_{20}(0-2)_{02} = -B_{202}(n, -n+2) + \frac{2}{I_{20}(0-2)} A_{202}(n, -n+2)$
$3-\mu-2\mu s'$	η'^2	$H_{3-1}(0-2)_{02} = -B_{302}(n, -n+2) + \frac{2}{I_{3-1}(0-2)} A_{302}(n, -n+2)$
$4-2\mu-2\mu s'$	η'^2	$H_{4-2}(0-2)_{02} = -B_{402}(n, -n+2) + \frac{2}{I_{4-2}(0-2)} A_{402}(n, -n+2)$ u. s. w.

Argument	Exc.	Coefficient
$1-3\mu+2\mu s'$	η'^2	$H_{1-3}(02)_{02} = -B_{102}(n, -n-2) + \frac{2}{I_{1-3}(02)} A_{102}(n, -n-2)$
$2-4\mu+2\mu s'$	η'^2	$H_{2-4}(02)_{02} = -B_{202}(n, -n-2) + \frac{2}{I_{2-4}(02)} A_{202}(n, -n-2)$
$3-5\mu+2\mu s'$	η'^2	$H_{3-5}(02)_{02} = -B_{302}(n, -n-2) + \frac{2}{I_{3-5}(02)} A_{302}(n, -n-2)$
$4-6\mu+2\mu s'$	η'^2	$H_{4-6}(02)_{02} = -B_{402}(n, -n-2) + \frac{2}{I_{4-6}(02)} A_{402}(n, -n-2)$
u. s. w.		

Formeln für die Integrationsdivisoren λ .

Die Divisoren $\lambda_{\nu\nu'}(01)$ sind ganz analog zu bilden, nur ist $\mu s'$ statt s zu setzen.

$$\begin{aligned}
 \lambda_{1-1}(00) &= 2\mu - \mu^2 - \beta \\
 \lambda_{2-2}(00) &= -3 + 8\mu - 4\mu^2 - \beta \\
 \lambda_{3-3}(00) &= -8 + 18\mu - 9\mu^2 - \beta \\
 \lambda_{4-4}(00) &= -15 + 32\mu - 16\mu^2 - \beta \\
 \lambda_{5-5}(00) &= -24 + 50\mu - 25\mu^2 - \beta \\
 \lambda_{6-6}(00) &= -35 + 72\mu - 36\mu^2 - \beta
 \end{aligned}$$

u. s. w.

$$\begin{aligned}
 \lambda_{2-1}(-10) &= -3 + 4\mu - \mu^2 + 4s - 2\mu s - s^2 - \beta \\
 \lambda_{3-2}(-10) &= -8 + 12\mu - 4\mu^2 + 6s - 4\mu s - s^2 - \beta \\
 \lambda_{4-3}(-10) &= -15 + 24\mu - 9\mu^2 + 8s - 6\mu s - s^2 - \beta \\
 \lambda_{5-4}(-10) &= -24 + 40\mu - 16\mu^2 + 10s - 8\mu s - s^2 - \beta \\
 \lambda_{6-5}(-10) &= -35 + 60\mu - 25\mu^2 + 12s - 10\mu s - s^2 - \beta
 \end{aligned}$$

u. s. w.

$$\begin{aligned}
 \lambda_{01}(-10) &= 1 - \mu^2 + 2\mu s - s^2 - \beta \\
 \lambda_{1-2}(10) &= 4\mu - 4\mu^2 - 2s + 4\mu s - s^2 - \beta \\
 \lambda_{2-3}(10) &= -3 + 12\mu - 9\mu^2 - 4s + 6\mu s - s^2 - \beta \\
 \lambda_{3-4}(10) &= -8 + 24\mu - 16\mu^2 - 6s + 8\mu s - s^2 - \beta \\
 \lambda_{4-5}(10) &= -15 + 40\mu - 25\mu^2 - 8s + 10\mu s - s^2 - \beta \\
 \lambda_{5-6}(10) &= -24 + 60\mu - 36\mu^2 - 10s + 12\mu s - s^2 - \beta
 \end{aligned}$$

u. s. w.

$$\begin{aligned}
 \lambda_{20}(-20) &= -3 + 8s - 4s^2 - \beta \\
 \lambda_{3-1}(-20) &= -8 + 6\mu - \mu^2 + 12s - 4\mu s - 4s^2 - \beta \\
 \lambda_{4-2}(-20) &= -15 + 16\mu - 4\mu^2 + 16s - 8\mu s - 4s^2 - \beta \\
 \lambda_{5-3}(-20) &= -24 + 30\mu - 9\mu^2 + 20s - 12\mu s - 4s^2 - \beta \\
 \lambda_{6-4}(-20) &= -35 + 48\mu - 16\mu^2 + 24s - 16\mu s - 4s^2 - \beta \\
 \lambda_{7-5}(-20) &= -48 + 70\mu - 25\mu^2 + 28s - 20\mu s - 4s^2 - \beta
 \end{aligned}$$

u. s. w.

$$\begin{aligned}
 \lambda_{11}(-20) &= -2\mu - \mu^2 + 4\varsigma + 4\mu\varsigma - 4\varsigma^2 - \beta \\
 \lambda_{02}(-20) &= 1 - 4\mu^2 + 8\mu\varsigma - 4\varsigma^2 - \beta \\
 \lambda_{1-3}(20) &= 6\mu - 9\mu^2 - 4\varsigma + 12\mu\varsigma - 4\varsigma^2 - \beta \\
 \lambda_{2-4}(20) &= -3 + 16\mu - 16\mu^2 - 8\varsigma + 16\mu\varsigma - 4\varsigma^2 - \beta \\
 \lambda_{3-5}(20) &= -8 + 30\mu - 25\mu^2 - 12\varsigma + 20\mu\varsigma - 4\varsigma^2 - \beta \\
 \lambda_{4-6}(20) &= -15 + 48\mu - 36\mu^2 - 16\varsigma + 24\mu\varsigma - 4\varsigma^2 - \beta
 \end{aligned}$$

u. s. w.

$$\begin{aligned}
 \lambda_{11}(-1-1) &= -2\mu - \mu^2 + 2\varsigma + 2\mu\varsigma - \varsigma^2 + 2\mu\varsigma' + 2\mu\mu\varsigma' - \overline{\mu\varsigma'^2} - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{20}(-1-1) &= -3 + 4\varsigma - \varsigma^2 + 4\mu\varsigma' - \overline{\mu\varsigma'^2} - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{3-1}(-1-1) &= -8 + 6\mu - \mu^2 + 6\varsigma - 2\mu\varsigma - \varsigma^2 + 6\mu\varsigma' - \overline{\mu\varsigma'^2} - 2\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{4-2}(-1-1) &= -15 + 16\mu - 4\mu^2 + 8\varsigma - 4\mu\varsigma - \varsigma^2 + 8\mu\varsigma' - \overline{\mu\varsigma'^2} - 4\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{5-3}(-1-1) &= -24 + 30\mu - 9\mu^2 + 10\varsigma - 6\mu\varsigma - \varsigma^2 + 10\mu\varsigma' - \overline{\mu\varsigma'^2} - 6\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{6-4}(-1-1) &= -35 + 40\mu - 16\mu^2 + 12\varsigma - 8\mu\varsigma - \varsigma^2 + 12\mu\varsigma' - \overline{\mu\varsigma'^2} - 8\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta
 \end{aligned}$$

u. s. w.

$$\begin{aligned}
 \lambda_{02}(-1-1) &= 1 - 4\mu^2 + 4\mu\varsigma - \varsigma^2 - \overline{\mu\varsigma'^2} + 4\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{1-3}(11) &= 6\mu - 9\mu^2 - 2\varsigma + 6\mu\varsigma - \varsigma^2 - 2\mu\varsigma' - \overline{\mu\varsigma'^2} + 6\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{2-4}(11) &= -3 + 16\mu - 16\mu^2 - 4\varsigma + 8\mu\varsigma - \varsigma^2 - 4\mu\varsigma' - \overline{\mu\varsigma'^2} + 8\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{3-5}(11) &= -8 + 30\mu - 25\mu^2 - 6\varsigma + 10\mu\varsigma - \varsigma^2 - 6\mu\varsigma' - \overline{\mu\varsigma'^2} + 10\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{4-6}(11) &= -15 + 48\mu - 36\mu^2 - 8\varsigma + 12\mu\varsigma - \varsigma^2 - 8\mu\varsigma' - \overline{\mu\varsigma'^2} + 12\mu\mu\varsigma' - 2\varsigma\mu\varsigma' - \beta
 \end{aligned}$$

u. s. w.

$$\begin{aligned}
 \lambda_{1-1}(-11) &= 2\mu - \mu^2 + 2\varsigma - 2\mu\varsigma - \varsigma^2 - 2\mu\varsigma' - \overline{\mu\varsigma'^2} + 2\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{2-2}(-11) &= -3 + 8\mu - 4\mu^2 + 4\varsigma - 4\mu\varsigma - \varsigma^2 - 4\mu\varsigma' - \overline{\mu\varsigma'^2} + 4\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{3-3}(-11) &= -8 + 18\mu - 9\mu^2 + 6\varsigma - 6\mu\varsigma - \varsigma^2 - 6\mu\varsigma' - \overline{\mu\varsigma'^2} + 6\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{4-4}(-11) &= -15 + 32\mu - 16\mu^2 + 8\varsigma - 8\mu\varsigma - \varsigma^2 - 8\mu\varsigma' - \overline{\mu\varsigma'^2} + 8\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta
 \end{aligned}$$

u. s. w.

$$\begin{aligned}
 \lambda_{00}(1-1) &= 1 - \varsigma^2 - \overline{\mu\varsigma'^2} + 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{1-1}(1-1) &= 2\mu - \mu^2 - 2\varsigma + 2\mu\varsigma - \varsigma^2 + 2\mu\varsigma' - \overline{\mu\varsigma'^2} - 2\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{2-2}(1-1) &= -3 + 8\mu - 4\mu^2 - 4\varsigma + 4\mu\varsigma - \varsigma^2 + 4\mu\varsigma' - \overline{\mu\varsigma'^2} - 4\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{3-3}(1-1) &= -8 + 18\mu - 9\mu^2 - 6\varsigma + 6\mu\varsigma - \varsigma^2 + 6\mu\varsigma' - \overline{\mu\varsigma'^2} - 6\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{4-4}(1-1) &= -15 + 32\mu - 16\mu^2 - 8\varsigma + 8\mu\varsigma - \varsigma^2 + 8\mu\varsigma' - \overline{\mu\varsigma'^2} - 8\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta \\
 \lambda_{5-5}(1-1) &= -24 + 50\mu - 25\mu^2 - 10\varsigma + 10\mu\varsigma - \varsigma^2 + 10\mu\varsigma' - \overline{\mu\varsigma'^2} - 10\mu\mu\varsigma' + 2\varsigma\mu\varsigma' - \beta
 \end{aligned}$$

u. s. w.

Formeln für die Entwicklungskoeffizienten $P_{\gamma\gamma'}(nn')$.

Argument	Exc.	Coefficient
—	—	$ \begin{aligned} P_{00}(00)_{00} &= B_{000}(n, -n) + \frac{1}{2} B_{110}(n, -n) G_{1-1}(00)_{00} \\ &\quad + \frac{1}{2} B_{210}(n, -n) G_{2-2}(00)_{00} \\ &\quad + \frac{1}{2} B_{310}(n, -n) G_{3-3}(00)_{00} \\ &\quad + \frac{1}{2} B_{410}(n, -n) G_{4-4}(00)_{00} \\ &\quad + \dots \end{aligned} $
$1-\mu$	—	$P_{1-1}(00)_{00} = B_{100}(n, -n)$

Argument	Exc.	Coefficient
$2-2\mu$	—	$P_{2-2}(00)_{00} = B_{200}(n, -n) + \frac{1}{2} B_{110}(n, -n) [G_{1-1}(00)_{00} \pm G_{3-3}(00)_{00}]$ $+ \frac{1}{2} B_{210}(n, -n) [2 G_{00}(00)_{00} \pm G_{4-4}(00)_{00}]$ $+ \frac{1}{2} B_{310}(n, -n) [G_{1-1}(00)_{00} \pm G_{5-5}(00)_{00}]$ $+ \frac{1}{2} B_{410}(n, -n) [G_{2-2}(00)_{00} \pm G_{6-6}(00)_{00}]$ $+ \dots$
$3-3\mu$	—	$P_{3-3}(00)_{00} = B_{300}(n, -n) + \frac{1}{2} B_{110}(n, -n) [G_{2-2}(00)_{00} \pm G_{4-4}(00)_{00}]$ $+ \frac{1}{2} B_{210}(n, -n) [G_{1-1}(00)_{00} \pm G_{5-5}(00)_{00}]$ $+ \frac{1}{2} B_{310}(n, -n) [2 G_{00}(00)_{00} \pm G_{6-6}(00)_{00}]$ $+ \frac{1}{2} B_{410}(n, -n) [G_{1-1}(00)_{00} \pm G_{7-7}(00)_{00}]$ $+ \dots$
$4-4\mu$	—	$P_{4-4}(00)_{00} = B_{400}(n, -n)$
$5-5\mu$	—	$P_{5-5}(00)_{00} = B_{500}(n, -n)$
		u. s. w.
$1-\varsigma$	η	$P_{10}(-10)_{10} = B_{010}(n+1, -n) + B_{010}(n-1, -n)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{01}(-10)_{10} \pm G_{2-1}(-10)_{10}] + G_{00}(00)_{00} [B_{020}(n+1, -n) + B_{020}(n-1, -n)]$ $+ \frac{1}{2} B_{210}(n, -n) [G_{1-2}(10)_{10} \pm G_{3-2}(-10)_{10}] + \frac{1}{2} G_{1-1}(00)_{00} [B_{120}(n+1, -n) \pm B_{120}(n-1, -n)]$ $+ \frac{1}{2} B_{310}(n, -n) [G_{2-3}(10)_{10} \pm G_{4-3}(-10)_{10}] + \frac{1}{2} G_{2-2}(00)_{00} [B_{220}(n+1, -n) \pm B_{220}(n-1, -n)]$ $+ \frac{1}{2} B_{410}(n, -n) [G_{3-4}(10)_{10} \pm G_{5-4}(-10)_{10}] + \frac{1}{2} G_{3-3}(00)_{00} [B_{320}(n+1, -n) \pm B_{320}(n-1, -n)]$ $+ \dots$
$2-\mu-\varsigma$	η	$P_{2-1}(-10)_{10} = B_{110}(n+1, -n)$
$3-2\mu-\varsigma$	η	$P_{3-2}(-10)_{10} = B_{210}(n+1, -n)$
$4-3\mu-\varsigma$	η	$P_{4-3}(-10)_{10} = B_{310}(n+1, -n)$
$5-4\mu-\varsigma$	η	$P_{5-4}(-10)_{10} = B_{410}(n+1, -n)$
		u. s. w.
$\mu-\varsigma$	η	$P_{01}(-10)_{10} = \pm B_{110}(n-1, -n)$
$1-2\mu+\varsigma$	η	$P_{1-2}(10)_{10} = B_{210}(n-1, -n) + \frac{1}{2} B_{110}(n, -n) [G_{01}(-10)_{10} \pm G_{2-3}(10)_{10}]$ $\pm \frac{1}{2} B_{210}(n, -n) G_{3-4}(10)_{10}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{2-1}(-10)_{10} \pm G_{4-5}(10)_{10}]$ $+ \frac{1}{2} B_{410}(n, -n) [G_{3-2}(-10)_{10} \pm G_{5-6}(10)_{10}]$ $+ \dots$ $+ \frac{1}{2} B_{020}(n+1, -n) G_{2-2}(00)_{00} + \frac{1}{2} B_{020}(n-1, -n) G_{2-2}(00)_{00}$ $\pm \frac{1}{2} B_{120}(n+1, -n) G_{3-3}(00)_{00} + \frac{1}{2} B_{120}(n-1, -n) G_{1-1}(00)_{00}$ $\pm \frac{1}{2} B_{220}(n+1, -n) G_{4-4}(00)_{00} + B_{220}(n-1, -n) G_{00}(00)_{00}$ $\pm \frac{1}{2} B_{320}(n+1, -n) G_{5-5}(00)_{00} + \frac{1}{2} B_{320}(n-1, -n) G_{1-1}(00)_{00}$ $\pm \dots + \frac{1}{2} B_{420}(n-1, -n) G_{2-2}(00)_{00}$ $+ \dots$
$2-3\mu+\varsigma$	η	$P_{2-3}(10)_{10} = B_{310}(n-1, -n) + \frac{1}{2} B_{110}(n, -n) [G_{1-2}(10)_{10} \pm G_{3-4}(10)_{10}]$ $+ \frac{1}{2} B_{210}(n, -n) [G_{01}(-10)_{10} \pm G_{4-5}(10)_{10}]$ $\pm \frac{1}{2} B_{310}(n, -n) G_{5-6}(10)_{10}$ $+ \frac{1}{2} B_{410}(n, -n) [G_{2-1}(-10)_{10} \pm G_{6-7}(10)_{10}]$ $+ \frac{1}{2} B_{510}(n, -n) [G_{3-2}(-10)_{10} \pm G_{7-8}(10)_{10}]$ $+ \dots$

Argument	Exc.	Coefficient	
		$ \begin{aligned} & + \frac{1}{2} B_{020}(n+1, -n) G_{3-3}(00)_{00} & + \frac{1}{2} B_{020}(n-1, -n) G_{3-3}(00)_{00} \\ & \pm \frac{1}{2} B_{120}(n+1, -n) G_{4-4}(00)_{00} & + \frac{1}{2} B_{120}(n-1, -n) G_{2-2}(00)_{00} \\ & \pm \frac{1}{2} B_{220}(n+1, -n) G_{5-5}(00)_{00} & + \frac{1}{2} B_{220}(n-1, -n) G_{1-1}(00)_{00} \\ & \pm \frac{1}{2} B_{320}(n+1, -n) G_{6-6}(00)_{00} & + B_{320}(n-1, -n) G_{00}(00)_{00} \\ & \pm \quad \cdot \quad \cdot \quad \cdot \quad \cdot & + \frac{1}{2} B_{420}(n-1, -n) G_{1-1}(00)_{00} \\ & & + \quad \cdot \quad \cdot \quad \cdot \quad \cdot \end{aligned} $	
$3-4\mu+\varsigma$	η	$P_{3-4}(10)_{10} = B_{410}(n-1, -n)$	
$4-5\mu+\varsigma$	η	$P_{4-5}(10)_{10} = B_{510}(n-1, -n)$	
$5-6\mu+\varsigma$	η	$P_{5-6}(10)_{10} = B_{610}(n-1, -n)$	
		• u. s. w.	
$\mu-\mu\varsigma'$	η'	$P_{01}(0-1)_{01} = B_{001}(n, -n+1) + B_{001}(n, -n-1)$	
$1-\mu\varsigma'$	η'	$ \begin{aligned} & P_{10}(0-1)_{01} = B_{101}(n, -n+1) \\ & + \frac{1}{2} B_{110}(n, -n) [G_{01}(0-1)_{01} \pm G_{2-1}(0-1)_{01}] & + \frac{1}{2} B_{011}(n, -n+1) G_{1-1}(00)_{00} \\ & + \frac{1}{2} B_{210}(n, -n) [G_{1-2}(01)_{01} \pm G_{3-2}(0-1)_{01}] & + B_{111}(n, -n+1) G_{00}(00)_{00} \\ & + \frac{1}{2} B_{310}(n, -n) [G_{2-3}(01)_{01} \pm G_{4-3}(0-1)_{01}] & + \frac{1}{2} B_{211}(n, -n+1) G_{1-1}(00)_{00} \\ & + \quad \cdot \quad \cdot \quad \cdot \quad \cdot & + \frac{1}{2} B_{311}(n, -n+1) G_{2-2}(00)_{00} \\ & + \frac{1}{2} B_{011}(n, -n-1) G_{1-1}(00)_{00} & + \quad \cdot \quad \cdot \quad \cdot \quad \cdot \\ & \pm \frac{1}{2} B_{111}(n, -n-1) G_{2-2}(00)_{00} \\ & \pm \frac{1}{2} B_{211}(n, -n-1) G_{3-3}(00)_{00} \\ & \pm \quad \cdot \quad \cdot \quad \cdot \quad \cdot \end{aligned} $	
$2-\mu-\mu\varsigma'$	η'	$P_{2-1}(0-1)_{01} = B_{201}(n, -n+1)$	
$3-2\mu-\mu\varsigma'$	η'	$P_{3-2}(0-1)_{01} = B_{301}(n, -n+1)$	
$4-3\mu-\mu\varsigma'$	η'	$P_{4-3}(0-1)_{01} = B_{401}(n, -n+1)$	
		u. s. w.	
$1-2\mu+\mu\varsigma'$	η'	$ \begin{aligned} & P_{1-2}(01)_{01} = B_{101}(n, -n-1) \\ & + \frac{1}{2} B_{110}(n, -n) [G_{01}(0-1)_{01} \pm G_{2-3}(01)_{01}] & + \frac{1}{2} B_{011}(n, -n+1) G_{1-1}(00)_{00} \\ & \pm \frac{1}{2} B_{210}(n, -n) G_{3-4}(01)_{01} & \pm \frac{1}{2} B_{111}(n, -n+1) G_{2-2}(00)_{00} \\ & + \frac{1}{2} B_{310}(n, -n) [G_{2-1}(0-1)_{01} \pm G_{4-5}(01)_{01}] & \pm \frac{1}{2} B_{211}(n, -n+1) G_{3-3}(00)_{00} \\ & + \frac{1}{2} B_{410}(n, -n) [G_{3-2}(0-1)_{01} \pm G_{5-6}(01)_{01}] & \pm \frac{1}{2} B_{311}(n, -n+1) G_{4-4}(00)_{00} \\ & + \quad \cdot \quad \cdot \quad \cdot \quad \cdot & \pm \quad \cdot \quad \cdot \quad \cdot \quad \cdot \\ & + \frac{1}{2} B_{011}(n, -n-1) G_{1-1}(00)_{00} \\ & + B_{111}(n, -n-1) G_{00}(00)_{00} \\ & + \frac{1}{2} B_{211}(n, -n-1) G_{1-1}(00)_{00} \\ & + \frac{1}{2} B_{311}(n, -n-1) G_{2-2}(00)_{00} \\ & + \quad \cdot \quad \cdot \quad \cdot \quad \cdot \end{aligned} $	
$2-3\mu+\mu\varsigma'$	η'	$ \begin{aligned} & P_{2-3}(01)_{01} = B_{201}(n, -n-1) \\ & + \frac{1}{2} B_{110}(n, -n) [G_{1-2}(01)_{01} \pm G_{3-4}(01)_{01}] & + \frac{1}{2} B_{011}(n, -n+1) G_{2-2}(00)_{00} \\ & + \frac{1}{2} B_{210}(n, -n) [G_{01}(0-1)_{01} \pm G_{4-5}(01)_{01}] & \pm \frac{1}{2} B_{111}(n, -n+1) G_{3-3}(00)_{00} \\ & \pm \frac{1}{2} B_{310}(n, -n) G_{5-6}(01)_{01} & \pm \frac{1}{2} B_{211}(n, -n+1) G_{4-4}(00)_{00} \\ & + \frac{1}{2} B_{410}(n, -n) [G_{2-1}(0-1)_{01} \pm G_{6-7}(01)_{01}] & \pm \frac{1}{2} B_{311}(n, -n+1) G_{5-5}(00)_{00} \\ & + \quad \cdot \quad \cdot \quad \cdot \quad \cdot & + \quad \cdot \quad \cdot \quad \cdot \quad \cdot \end{aligned} $	

Argument	Exc.	Coefficient
		$+ \frac{1}{2} B_{011}(n, -n-1) G_{2-2}(00)_{00}$ $+ \frac{1}{2} B_{111}(n, -n-1) G_{1-1}(00)_{00}$ $+ B_{211}(n, -n-1) G_{00}(00)_{00}$ $+ \frac{1}{2} B_{311}(n, -n-1) G_{1-1}(00)_{00}$ $+ \dots$
$3-4\mu + \mu\zeta'$	γ'	$P_{3-4}(01)_{01} = B_{301}(n, -n-1)$
$4-5\mu + \mu\zeta'$	γ'	$P_{4-5}(01)_{01} = B_{401}(n, -n-1)$
$5-6\mu + \mu\zeta'$	γ'	$P_{5-6}(01)_{01} = B_{501}(n, -n-1)$
		u. s. w.
—	γ'^2	$P_{00}(00)_{20} = B_{020}(n, -n) + B_{000}(n, -n)_{10}$ $+ \frac{1}{2} B_{110}(n, -n) G_{1-1}(00)_{20} + [B_{030}(n, -n) + B_{010}(n, -n)_{10}] G_{00}(00)_{00}$ $+ \frac{1}{2} B_{210}(n, -n) G_{2-2}(00)_{20} + \frac{1}{2} [B_{130}(n, -n) + B_{110}(n, -n)_{10}] G_{1-1}(00)_{00}$ $+ \frac{1}{2} B_{310}(n, -n) G_{3-3}(00)_{20} + \frac{1}{2} [B_{230}(n, -n) + B_{210}(n, -n)_{10}] G_{2-2}(00)_{00}$ $+ \frac{1}{2} B_{410}(n, -n) G_{4-4}(00)_{20} + \frac{1}{2} [B_{330}(n, -n) + B_{310}(n, -n)_{10}] G_{3-3}(00)_{00}$ $+ \dots$ $+ \frac{1}{2} B_{120}(n+1, -n) G_{2-1}(-10)_{10} + \frac{1}{2} B_{120}(n-1, -n) G_{01}(-10)_{10}$ $+ \frac{1}{2} B_{220}(n+1, -n) G_{3-2}(-10)_{10} + \frac{1}{2} B_{220}(n-1, -n) G_{1-2}(10)_{10}$ $+ \frac{1}{2} B_{320}(n+1, -n) G_{4-3}(-10)_{10} + \frac{1}{2} B_{320}(n-1, -n) G_{2-3}(10)_{10}$ $+ \frac{1}{2} B_{420}(n+1, -n) G_{5-4}(-10)_{10} + \frac{1}{2} B_{420}(n-1, -n) G_{3-4}(10)_{10}$ $+ \dots$
$1-\mu$	γ'^2	$P_{1-1}(00)_{20} = B_{120}(n, -n) + B_{100}(n, -n)_{10}$
$2-2\mu$	γ'^2	$P_{2-2}(00)_{20} = B_{220}(n, -n) + B_{200}(n, -n)_{10}$ $+ \frac{1}{2} B_{110}(n, -n) [G_{1-1}(00)_{20} \pm G_{3-3}(00)_{20}] + \{B_{030}(n, -n) + B_{010}(n, -n)_{10}\} G_{2-2}(00)_{00}$ $+ \frac{1}{2} B_{210}(n, -n) [2 G_{00}(00)_{20} \pm G_{4-4}(00)_{20}] + \frac{1}{2} \{B_{130}(n, -n) + B_{110}(n, -n)_{10}\} [G_{1-1}(00)_{00} \pm G_{3-3}(00)_{00}]$ $+ \frac{1}{2} B_{310}(n, -n) [G_{1-1}(00)_{20} \pm G_{5-5}(00)_{20}] + \frac{1}{2} \{B_{230}(n, -n) + B_{210}(n, -n)_{10}\} [2 G_{00}(00)_{00} \pm G_{4-4}(00)_{00}]$ $+ \frac{1}{2} B_{410}(n, -n) [G_{2-2}(00)_{20} \pm G_{6-6}(00)_{20}] + \frac{1}{2} \{B_{330}(n, -n) + B_{310}(n, -n)_{10}\} [G_{1-1}(00)_{00} \pm G_{5-5}(00)_{00}]$ $+ \dots$ $+ \frac{1}{2} B_{020}(n+1, -n) [G_{1-2}(10)_{10} \pm G_{3-2}(-10)_{10}] + \frac{1}{2} B_{020}(n-1, -n) [G_{3-2}(-10)_{10} \pm G_{1-2}(10)_{10}]$ $+ \frac{1}{2} B_{120}(n+1, -n) [G_{01}(-10)_{10} \pm G_{4-3}(-10)_{10}] + \frac{1}{2} B_{120}(n-1, -n) [G_{2-1}(-10)_{10} \pm G_{2-3}(10)_{10}]$ $\pm \frac{1}{2} B_{220}(n+1, -n) G_{5-4}(-10)_{10} \pm \frac{1}{2} B_{220}(n-1, -n) G_{3-4}(10)_{10}$ $+ \frac{1}{2} B_{320}(n+1, -n) [G_{2-1}(-10)_{10} \pm G_{6-5}(-10)_{10}] + \frac{1}{2} B_{320}(n-1, -n) [G_{01}(-10)_{10} \pm G_{4-5}(10)_{10}]$ $+ \frac{1}{2} B_{420}(n+1, -n) [G_{3-2}(-10)_{10} \pm G_{7-6}(-10)_{10}] + \frac{1}{2} B_{420}(n-1, -n) [G_{1-2}(10)_{10} \pm G_{5-6}(10)_{10}]$ $+ \dots$
$3-3\mu$	γ'^2	$P_{3-3}(00)_{20} = B_{320}(n, -n) + B_{300}(n, -n)_{10}$ $+ \frac{1}{2} B_{110}(n, -n) [G_{2-2}(00)_{20} \pm G_{4-4}(00)_{20}] + \{B_{030}(n, -n) + B_{010}(n, -n)_{10}\} G_{3-3}(00)_{00}$ $+ \frac{1}{2} B_{210}(n, -n) [G_{1-1}(00)_{20} \pm G_{5-5}(00)_{20}] + \frac{1}{2} \{B_{130}(n, -n) + B_{110}(n, -n)_{10}\} [G_{2-2}(00)_{00} \pm G_{4-4}(00)_{00}]$ $+ \frac{1}{2} B_{310}(n, -n) [2 G_{00}(00)_{20} \pm G_{6-6}(00)_{20}] + \frac{1}{2} \{B_{230}(n, -n) + B_{210}(n, -n)_{10}\} [G_{1-1}(00)_{00} \pm G_{5-5}(00)_{00}]$ $+ \frac{1}{2} B_{410}(n, -n) [G_{1-1}(00)_{20} \pm G_{7-7}(00)_{20}] + \frac{1}{2} \{B_{330}(n, -n) + B_{310}(n, -n)_{10}\} [2 G_{00}(00)_{00} \pm G_{6-6}(00)_{00}]$ $+ \frac{1}{2} B_{510}(n, -n) [G_{2-2}(00)_{20} \pm G_{8-8}(00)_{20}] + \frac{1}{2} \{B_{430}(n, -n) + B_{410}(n, -n)_{10}\} [G_{1-1}(00)_{00} \pm G_{7-7}(00)_{00}]$ $+ \dots$

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{1}{2} B_{020}(n+1, -n) [G_{2-3}(10)_{10} + G_{4-3}(-10)_{10}] + \frac{1}{2} B_{020}(n-1, -n) [G_{4-3}(-10)_{10} + G_{2-3}(10)_{10}] \\ & + \frac{1}{2} B_{120}(n+1, -n) [G_{1-2}(10)_{10} + G_{5-4}(-10)_{10}] + \frac{1}{2} B_{120}(n-1, -n) [G_{3-2}(-10)_{10} \pm G_{3-4}(10)_{10}] \\ & + \frac{1}{2} B_{220}(n+1, -n) [G_{01}(-10)_{10} \pm G_{6-5}(-10)_{10}] + \frac{1}{2} B_{220}(n-1, -n) [G_{2-1}(-10)_{10} \pm G_{4-5}(10)_{10}] \\ & \pm \frac{1}{2} B_{320}(n+1, -n) G_{7-6}(-10)_{10} \pm \frac{1}{2} B_{320}(n-1, -n) G_{5-6}(10)_{10} \\ & + \frac{1}{2} B_{420}(n+1, -n) [G_{2-1}(-10)_{10} \pm G_{8-7}(-10)_{10}] + \frac{1}{2} B_{420}(n-1, -n) [G_{01}(-10)_{10} \pm G_{6-7}(10)_{10}] \\ & + \dots + \frac{1}{2} B_{520}(n-1, -n) [G_{1-2}(10)_{10} \pm G_{7-8}(10)_{10}] \\ & + \dots \end{aligned} $
4—4 μ	η^2	$P_{4-4}(00)_{20} = B_{420}(n, -n) + B_{400}(n, -n)_{10}$
5—5 μ	η^2	$ \begin{aligned} P_{5-5}(00)_{20} &= B_{520}(n, -n) + B_{500}(n, -n)_{10} \\ &\text{u. s. w.} \end{aligned} $
2—2 ζ	η^2	$P_{20}(-20)_{20} = B_{020}(n+2, -n) + B_{020}(n-2, -n)$
3— μ —2 ζ	η^2	$P_{3-1}(-20)_{20} = B_{120}(n+2, -n)$
4—2 μ —2 ζ	η^2	$P_{4-2}(-20)_{20} = B_{220}(n+2, -n)$
5—3 μ —2 ζ	η^2	$ \begin{aligned} P_{5-3}(-20)_{20} &= B_{320}(n+2, -n) \\ &\text{u. s. w.} \end{aligned} $
1+ μ —2 ζ	η^2	$P_{11}(-20)_{20} = \pm B_{120}(n-2, -n)$
2 μ —2 ζ	η^2	$ \begin{aligned} P_{02}(-20)_{20} &= \pm B_{220}(n-2, -n) \\ &+ \frac{1}{2} B_{110}(n, -n) [G_{1-3}(20)_{20} \pm G_{11}(-20)_{20}] + \frac{1}{2} B_{020}(n+1, -n) G_{1-2}(10)_{10} \\ &+ \frac{1}{2} B_{210}(n, -n) [G_{2-4}(20)_{20} \pm G_{20}(-20)_{20}] + \frac{1}{2} B_{120}(n+1, -n) G_{2-3}(10)_{10} \\ &+ \frac{1}{2} B_{310}(n, -n) [G_{3-5}(20)_{20} \pm G_{3-1}(-20)_{20}] + \frac{1}{2} B_{220}(n+1, -n) G_{3-4}(10)_{10} \\ &+ \dots + \dots \\ &+ \frac{1}{2} B_{020}(n-1, -n) G_{1-2}(10)_{10} + \frac{1}{2} B_{030}(n+2, -n) G_{2-2}(00)_{00} + \frac{1}{2} B_{030}(n-2, -n) G_{2-2}(00)_{00} \\ &\pm \frac{1}{2} B_{120}(n-1, -n) G_{01}(-10)_{10} + \frac{1}{2} B_{130}(n+2, -n) G_{3-3}(00)_{00} \pm \frac{1}{2} B_{130}(n-2, -n) G_{1-1}(00)_{00} \\ &\pm \frac{1}{2} B_{320}(n-1, -n) G_{2-1}(-10)_{10} + \frac{1}{2} B_{230}(n+2, -n) G_{4-4}(00)_{00} \pm B_{230}(n-2, -n) G_{00}(00)_{00} \\ &\pm \frac{1}{2} B_{420}(n-1, -n) G_{3-2}(-10)_{10} + \frac{1}{2} B_{330}(n+2, -n) G_{5-5}(00)_{00} \pm \frac{1}{2} B_{330}(n-2, -n) G_{1-1}(00)_{00} \\ &\pm \dots + \dots \pm \dots \end{aligned} $
1—3 μ +2 ζ	η^2	$ \begin{aligned} P_{1-3}(20)_{20} &= B_{320}(n-2, -n) \\ &+ \frac{1}{2} B_{110}(n, -n) [G_{02}(-20)_{20} \pm G_{2-4}(20)_{20}] + \frac{1}{2} B_{020}(n+1, -n) G_{2-3}(10)_{10} \\ &+ \frac{1}{2} B_{210}(n, -n) [G_{11}(-20)_{20} \pm G_{3-5}(20)_{20}] \pm \frac{1}{2} B_{120}(n+1, -n) G_{3-4}(10)_{10} \\ &+ \frac{1}{2} B_{310}(n, -n) [G_{20}(-20)_{20} \pm G_{4-6}(20)_{20}] \pm \frac{1}{2} B_{220}(n+1, -n) G_{4-5}(10)_{10} \\ &+ \frac{1}{2} B_{410}(n, -n) [G_{3-1}(-20)_{20} \pm G_{5-7}(20)_{20}] \pm \frac{1}{2} B_{320}(n+1, -n) G_{5-6}(10)_{10} \\ &+ \dots + \dots \\ &+ \frac{1}{2} B_{020}(n-1, -n) G_{2-3}(10)_{10} + \frac{1}{2} B_{030}(n+2, -n) G_{3-3}(00)_{00} + \frac{1}{2} B_{030}(n-2, -n) G_{3-3}(00)_{00} \\ &+ \frac{1}{2} B_{120}(n-1, -n) G_{1-2}(10)_{10} \pm \frac{1}{2} B_{130}(n+2, -n) G_{4-4}(00)_{00} + \frac{1}{2} B_{130}(n-2, -n) G_{2-2}(00)_{00} \\ &+ \frac{1}{2} B_{220}(n-1, -n) G_{01}(-10)_{10} \pm \frac{1}{2} B_{230}(n+2, -n) G_{5-5}(00)_{00} + \frac{1}{2} B_{230}(n-2, -n) G_{1-1}(00)_{00} \\ &+ \frac{1}{2} B_{420}(n-1, -n) G_{2-1}(-10)_{10} + \frac{1}{2} B_{330}(n+2, -n) G_{6-6}(00)_{00} + B_{330}(n-2, -n) G_{00}(00)_{00} \\ &+ \dots \pm \dots + \frac{1}{2} B_{430}(n-2, -n) G_{1-1}(00)_{00} \\ &+ \dots \end{aligned} $

Argument	Exc.	Coefficient
$2-4\mu+2s$	r_l^2	$P_{2-4}(20)_{20} = B_{420}(n-2, -n)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{1-3}(20)_{20} \pm G_{3-5}(20)_{20}]$ $+ \frac{1}{2} B_{210}(n, -n) [G_{02}(-20)_{20} \pm G_{4-6}(20)_{20}] + \frac{1}{2} B_{020}(n+1, -n) G_{3-4}(10)_{10}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{11}(-20)_{20} \pm G_{5-7}(20)_{20}] \pm \frac{1}{2} B_{120}(n+1, -n) G_{4-5}(10)_{10}$ $+ \frac{1}{2} B_{410}(n, -n) [G_{20}(-20)_{20} \pm G_{6-8}(20)_{20}] \pm \frac{1}{2} B_{220}(n+1, -n) G_{5-6}(10)_{10}$ $+ \frac{1}{2} B_{020}(n-1, -n) G_{3-4}(10)_{10} + \frac{1}{2} B_{090}(n+2, -n) G_{4-4}(00)_{00} + \frac{1}{2} B_{030}(n-2, -n) G_{4-4}(00)_{00}$ $+ \frac{1}{2} B_{120}(n-1, -n) G_{2-3}(10)_{10} \pm \frac{1}{2} B_{130}(n+2, -n) G_{5-5}(00)_{00} + \frac{1}{2} B_{180}(n-2, -n) G_{3-3}(00)_{00}$ $+ \frac{1}{2} B_{220}(n-1, -n) G_{1-2}(10)_{10} \pm \frac{1}{2} B_{230}(n+2, -n) G_{6-6}(00)_{00} + \frac{1}{2} B_{230}(n-2, -n) G_{2-2}(00)_{00}$ $+ \frac{1}{2} B_{320}(n-1, -n) G_{01}(-10)_{10} \pm \frac{1}{2} B_{330}(n+2, -n) G_{7-7}(00)_{00} + \frac{1}{2} B_{330}(n-2, -n) G_{1-1}(00)_{00}$ $+ \frac{1}{2} B_{520}(n-1, -n) G_{2-1}(-10)_{10} \pm \dots + B_{430}(n-2, -n) G_{00}(00)_{00}$ $+ \dots + \frac{1}{2} B_{530}(n-2, -n) G_{1-1}(00)_{00}$ $+ \dots$
$3-5\mu+2s$	r_l^2	$P_{3-5}(20)_{20} = B_{520}(n-2, -n)$
$4-6\mu+2s$	r_l^2	$P_{4-6}(20)_{20} = B_{620}(n-2, -n)$ u. s. w.
$1+\mu-s-\mu s'$	$\eta\eta'$	$P_{11}(-1-1)_{11} = B_{011}(n+1, -n+1) + B_{011}(n-1, -n-1)$
$2-s-\mu s'$	r_l'	$P_{20}(-1-1)_{11} = B_{111}(n+1, -n+1)$
$3-\mu-s-\mu s'$	$\eta\eta'$	$P_{3-1}(-1-1)_{11} = B_{211}(n+1, -n+1)$
$4-2\mu-s-\mu s'$	$\eta\eta'$	$P_{4-2}(-1-1)_{11} = B_{311}(n+1, -n+1)$
$5-3\mu-s-\mu s'$	$\eta\eta'$	$P_{5-3}(-1-1)_{11} = B_{411}(n+1, -n+1)$ u. s. w.
$2\mu-s-\mu s'$	$\eta\eta'$	$P_{02}(-1-1)_{11} = \pm B_{111}(n-1, -n-1)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{1-3}(11)_{11} \pm G_{11}(-1-1)_{11}] + \frac{1}{2} B_{020}(n+1, -n) G_{1-2}(01)_{01}$ $+ \frac{1}{2} B_{210}(n, -n) [G_{2-4}(11)_{11} \pm G_{20}(-1-1)_{11}] + \frac{1}{2} B_{120}(n+1, -n) G_{2-3}(01)_{01}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{3-5}(11)_{11} \pm G_{3-1}(-1-1)_{11}] + \frac{1}{2} B_{220}(n+1, -n) G_{3-4}(01)_{01}$ $+ \dots + \frac{1}{2} B_{020}(n-1, -n) G_{1-2}(01)_{01} + \frac{1}{2} B_{011}(n, -n+1) G_{01}(-10)_{10} + \frac{1}{2} B_{011}(n, -n-1) G_{01}(-10)_{10}$ $\pm \frac{1}{2} B_{120}(n-1, -n) G_{01}(0-1)_{01} + \frac{1}{2} B_{111}(n, -n+1) G_{1-2}(10)_{10} \pm \frac{1}{2} B_{211}(n, -n-1) G_{2-1}(-10)_{10}$ $\pm \frac{1}{2} B_{320}(n-1, -n) G_{2-1}(0-1)_{01} + \frac{1}{2} B_{211}(n, -n+1) G_{2-3}(10)_{10} \pm \frac{1}{2} B_{311}(n, -n-1) G_{3-2}(-10)_{10}$ $\pm \dots + \frac{1}{2} B_{021}(n+1, -n+1) G_{1-1}(00)_{00} + \frac{1}{2} B_{021}(n-1, -n-1) G_{1-1}(00)_{00}$ $+ \frac{1}{2} B_{121}(n+1, -n+1) G_{2-2}(00)_{00} \pm B_{121}(n-1, -n-1) G_{00}(00)_{00}$ $+ \frac{1}{2} B_{221}(n+1, -n+1) G_{3-3}(00)_{00} \pm \frac{1}{2} B_{221}(n-1, -n-1) G_{1-1}(00)_{00}$ $+ \frac{1}{2} B_{321}(n+1, -n+1) G_{4-4}(00)_{00} \pm \frac{1}{2} B_{321}(n-1, -n-1) G_{2-2}(00)_{00}$ $+ \dots$

Argument	Exc.	Coefficient
$1-3\mu+s+\mu s'$	$\eta\eta'$	$P_{1-3}(11)_{11} = B_{311}(n-1, -n-1)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{02}(-1-1)_{11} \pm G_{2-4}(11)_{11}] + \frac{1}{2} B_{020}(n+1, -n) G_{2-3}(01)_{01}$ $+ \frac{1}{2} B_{210}(n, -n) [G_{11}(-1-1)_{11} \pm G_{3-5}(11)_{11}] \pm \frac{1}{2} B_{120}(n+1, -n) G_{3-4}(01)_{01}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{20}(-1-1)_{11} \pm G_{4-6}(11)_{11}] \pm \frac{1}{2} B_{220}(n+1, -n) G_{4-5}(01)_{01}$ $+ \frac{1}{2} B_{410}(n, -n) [G_{3-1}(-1-1)_{11} \pm G_{5-7}(11)_{11}] \pm \frac{1}{2} B_{320}(n+1, -n) G_{5-6}(01)_{01}$ $+ \dots + \dots + \dots$ $+ \frac{1}{2} B_{020}(n-1, -n) G_{2-3}(01)_{01} + \frac{1}{2} B_{011}(n, -n+1) G_{1-2}(10)_{10} + \frac{1}{2} B_{011}(n, -n-1) G_{1-2}(10)_{10}$ $+ \frac{1}{2} B_{120}(n-1, -n) G_{1-2}(01)_{01} \pm \frac{1}{2} B_{111}(n, -n+1) G_{2-3}(10)_{10} + \frac{1}{2} B_{111}(n, -n-1) G_{01}(-10)_{10}$ $+ \frac{1}{2} B_{220}(n-1, -n) G_{01}(0-1)_{01} + \frac{1}{2} B_{211}(n, -n+1) G_{3-4}(10)_{10} + \frac{1}{2} B_{311}(n, -n-1) G_{2-1}(-10)_{10}$ $+ \frac{1}{2} B_{420}(n-1, -n) G_{2-1}(0-1)_{01} \pm \frac{1}{2} B_{311}(n, -n+1) G_{4-5}(10)_{10} + \frac{1}{2} B_{411}(n, -n-1) G_{3-2}(-10)_{10}$ $+ \dots + \dots + \dots$ $+ \frac{1}{2} B_{021}(n+1, -n+1) G_{2-2}(00)_{00} + \frac{1}{2} B_{021}(n-1, -n-1) G_{2-2}(00)_{00}$ $\pm \frac{1}{2} B_{121}(n+1, -n+1) G_{3-3}(00)_{00} + \frac{1}{2} B_{121}(n-1, -n-1) G_{1-1}(00)_{00}$ $\pm \frac{1}{2} B_{221}(n+1, -n+1) G_{4-4}(00)_{00} + B_{221}(n-1, -n-1) G_{00}(00)_{00}$ $\pm \frac{1}{2} B_{321}(n+1, -n+1) G_{5-5}(00)_{00} + \frac{1}{2} B_{321}(n-1, -n-1) G_{1-1}(00)_{00}$ $\pm \dots + \dots + \dots$
$2-4\mu+s+\mu s'$	$\eta\eta'$	$P_{2-4}(11)_{11} = B_{311}(n-1, -n-1)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{1-3}(11)_{11} \pm G_{3-5}(11)_{11}] + \frac{1}{2} B_{020}(n+1, -n) G_{3-4}(01)_{01}$ $+ \frac{1}{2} B_{210}(n, -n) [G_{02}(-1-1)_{11} \pm G_{4-6}(11)_{11}] \pm \frac{1}{2} B_{120}(n+1, -n) G_{4-5}(01)_{01}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{11}(-1-1)_{11} \pm G_{5-7}(11)_{11}] \pm \frac{1}{2} B_{220}(n+1, -n) G_{5-6}(01)_{01}$ $+ \dots + \dots + \dots$ $+ \frac{1}{2} B_{020}(n-1, -n) G_{3-4}(01)_{01} + \frac{1}{2} B_{011}(n, -n+1) G_{2-3}(10)_{10} + \frac{1}{2} B_{011}(n, -n-1) G_{2-3}(10)_{10}$ $+ \frac{1}{2} B_{120}(n-1, -n) G_{2-3}(01)_{01} \pm \frac{1}{2} B_{111}(n, -n+1) G_{3-4}(10)_{10} + \frac{1}{2} B_{111}(n, -n-1) G_{1-2}(10)_{10}$ $+ \frac{1}{2} B_{220}(n-1, -n) G_{1-2}(01)_{01} \pm \frac{1}{2} B_{211}(n, -n+1) G_{4-5}(10)_{10} + \frac{1}{2} B_{211}(n, -n-1) G_{01}(-10)_{10}$ $+ \frac{1}{2} B_{320}(n-1, -n) G_{01}(0-1)_{01} \pm \frac{1}{2} B_{311}(n, -n+1) G_{5-6}(10)_{10} + \frac{1}{2} B_{411}(n, -n-1) G_{2-1}(-10)_{10}$ $+ \frac{1}{2} B_{520}(n-1, -n) G_{2-1}(0-1)_{01} \pm \dots + \frac{1}{2} B_{511}(n, -n-1) G_{3-2}(-10)_{10}$ $+ \dots + \dots + \dots$ $+ \frac{1}{2} B_{021}(n+1, -n+1) G_{3-3}(00)_{00} + \frac{1}{2} B_{021}(n-1, -n-1) G_{3-3}(00)_{00}$ $\pm \frac{1}{2} B_{121}(n+1, -n+1) G_{4-4}(00)_{00} + \frac{1}{2} B_{121}(n-1, -n-1) G_{2-2}(00)_{00}$ $\pm \frac{1}{2} B_{221}(n+1, -n+1) G_{5-5}(00)_{00} + \frac{1}{2} B_{221}(n-1, -n-1) G_{1-1}(00)_{00}$ $+ \dots + \dots + \dots$
$3-5\mu+s+\mu s'$	$\eta\eta'$	$P_{3-5}(11)_{11} = B_{411}(n-1, -n-1)$
$4-6\mu+s+\mu s'$	$\eta\eta'$	$P_{4-6}(11)_{11} = B_{511}(n-1, -n-1)$ u. s. w.
$1-2\mu-s+\mu s'$	$\eta\eta'$	$P_{1-1}(-11)_{11} = B_{011}(n+1, -n-1) + B_{011}(n-1, -n+1)$
$2-2\mu-s+\mu s'$	$\eta\eta'$	$P_{2-2}(-11)_{11} = B_{111}(n+1, -n-1)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{1-1}(-11)_{11} \pm G_{3-3}(-11)_{11}] + \frac{1}{2} B_{020}(n+1, -n) G_{1-2}(01)_{01}$ $+ \frac{1}{2} B_{210}(n, -n) [G_{00}(1-1)_{11} \pm G_{4-4}(-11)_{11}] + \frac{1}{2} B_{120}(n+1, -n) G_{01}(0-1)_{01}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{1-1}(1-1)_{11} \pm G_{5-5}(-11)_{11}] + \frac{1}{2} B_{320}(n+1, -n) G_{2-1}(0-1)_{01}$ $+ \dots + \dots + \dots$

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{1}{2} B_{020}(n-1, -n) G_{1-2}(01)_{01} + \frac{1}{2} B_{011}(n, -n+1) G_{2-1}(-10)_{10} + \frac{1}{2} B_{011}(n, -n-1) G_{2-1}(-10)_{10} \\ & \pm \frac{1}{2} B_{120}(n-1, -n) G_{2-3}(01)_{01} \pm \frac{1}{2} B_{111}(n, -n+1) G_{3-2}(-10)_{10} + \frac{1}{2} B_{211}(n, -n-1) G_{01}(-10)_{10} \\ & \pm \frac{1}{2} B_{220}(n-1, -n) G_{3-4}(01)_{01} \pm \frac{1}{2} B_{211}(n, -n+1) G_{4-3}(-10)_{10} + \frac{1}{2} B_{311}(n, -n-1) G_{1-2}(10)_{10} \\ & + \dots + \dots + \dots \\ & + \frac{1}{2} B_{021}(n+1, -n-1) G_{1-1}(00)_{00} + \frac{1}{2} B_{021}(n-1, -n+1) G_{1-1}(00)_{00} \\ & + B_{121}(n+1, -n-1) G_{00}(00)_{00} \pm \frac{1}{2} B_{121}(n-1, -n+1) G_{2-2}(00)_{00} \\ & + \frac{1}{2} B_{221}(n+1, -n-1) G_{1-1}(00)_{00} + \frac{1}{2} B_{221}(n-1, -n+1) G_{3-3}(00)_{00} \\ & + \frac{1}{2} B_{321}(n+1, -n-1) G_{2-2}(00)_{00} + \frac{1}{2} B_{321}(n-1, -n+1) G_{4-4}(00)_{00} \\ & + \dots + \dots + \dots \end{aligned} $
$3-3\mu-s+\mu s'$	$\eta\eta'$	$P_{3-3}(-11)_{11} = B_{211}(n+1, -n-1)$
$4-4\mu-s+\mu s'$	$\eta\eta'$	$P_{4-4}(-11)_{11} = B_{311}(n+1, -n-1)$
$5-5\mu-s+\mu s'$	$\eta\eta'$	$P_{5-5}(-11)_{11} = B_{411}(n+1, -n-1)$ u. s. w.
$s-\mu s'$	$\eta\eta'$	$ \begin{aligned} & P_{00}(1-1)_{11} = [B_{111}(n-1, -n+1)] \\ & + \frac{1}{2} B_{110}(n, -n) [G_{1-1}(-11)_{11} \pm G_{1-1}(1-1)_{11}] \pm \frac{1}{2} B_{120}(n+1, -n) G_{2-1}(0-1)_{01} \\ & + \frac{1}{2} B_{210}(n, -n) [G_{2-2}(-11)_{11} \pm G_{2-2}(1-1)_{11}] \pm \frac{1}{2} B_{220}(n+1, -n) G_{3-2}(0-1)_{01} \\ & + \frac{1}{2} B_{310}(n, -n) [G_{3-3}(-11)_{11} \pm G_{3-3}(1-1)_{11}] \pm \frac{1}{2} B_{320}(n+1, -n) G_{4-3}(0-1)_{01} \\ & + \dots + \dots + \dots \\ & + \frac{1}{2} B_{120}(n-1, -n) G_{01}(0-1)_{01} + \frac{1}{2} B_{011}(n, -n+1) G_{01}(-10)_{10} + \frac{1}{2} B_{011}(n, -n-1) G_{01}(-10)_{10} \\ & + \frac{1}{2} B_{220}(n-1, -n) G_{1-2}(01)_{01} + \frac{1}{2} B_{211}(n, -n+1) G_{2-1}(-10)_{10} + \frac{1}{2} B_{111}(n, -n-1) G_{1-2}(10)_{10} \\ & + \frac{1}{2} B_{320}(n-1, -n) G_{2-3}(01)_{01} + \frac{1}{2} B_{311}(n, -n+1) G_{3-2}(-10)_{10} + \frac{1}{2} B_{211}(n, -n-1) G_{2-3}(10)_{10} \\ & + \dots + \dots + \dots \\ & + \frac{1}{2} B_{021}(n+1, -n-1) G_{1-1}(00)_{00} + \frac{1}{2} B_{021}(n-1, -n+1) G_{1-1}(00)_{00} \\ & \pm \frac{1}{2} B_{121}(n+1, -n-1) G_{2-2}(00)_{00} + B_{121}(n-1, -n+1) G_{00}(00)_{00} \\ & \pm \frac{1}{2} B_{221}(n+1, -n-1) G_{3-3}(00)_{00} + \frac{1}{2} B_{221}(n-1, -n+1) G_{1-1}(00)_{00} \\ & \pm \frac{1}{2} B_{321}(n+1, -n-1) G_{4-4}(00)_{00} + \frac{1}{2} B_{321}(n-1, -n+1) G_{2-2}(00)_{00} \\ & + \dots + \dots + \dots \\ & + B_{020}(n, -n) \{ 2 G_{00}(00)_{00} G_{00}(1-1)_{11} \\ & + G_{1-1}(00)_{00} [G_{1-1}(1-1)_{11} + G_{1-1}(-11)_{11}] + G_{01}(-10)_{10} G_{01}(0-1)_{01} + G_{2-1}(-10)_{10} G_{2-1}(0-1)_{01} \\ & + G_{2-2}(00)_{00} [G_{2-2}(1-1)_{11} + G_{2-2}(-11)_{11}] + G_{1-2}(10)_{10} G_{1-2}(01)_{01} + G_{3-2}(-10)_{10} G_{3-2}(0-1)_{01} \\ & + G_{3-3}(00)_{00} [G_{3-3}(1-1)_{11} + G_{3-3}(-11)_{11}] + G_{2-3}(10)_{10} G_{2-3}(01)_{01} + G_{4-3}(-10)_{10} G_{4-3}(0-1)_{01} \\ & + \dots + \dots + \dots \} \\ & + \frac{1}{2} B_{120}(n, -n) \{ 2 G_{00}(00)_{00} [G_{1-1}(-11)_{11} \pm G_{1-1}(1-1)_{11}] \\ & + G_{1-1}(00)_{00} [G_{2-2}(-11)_{11} \pm G_{2-2}(1-1)_{11}] \\ & + G_{2-2}(00)_{00} [G_{3-3}(-11)_{11} + G_{1-1}(1-1)_{11} \pm G_{1-1}(-11)_{11} \pm G_{3-3}(1-1)_{11}] \\ & + G_{3-3}(00)_{00} [G_{4-4}(-11)_{11} + G_{2-2}(1-1)_{11} + G_{2-2}(-11)_{11} \pm G_{4-4}(1-1)_{11}] \\ & + \dots + \dots + \dots \\ & + G_{01}(-10)_{10} G_{1-2}(01)_{01} \pm G_{2-1}(-10)_{10} G_{3-2}(0-1)_{01} \\ & + G_{1-2}(10)_{10} [G_{2-3}(01)_{01} \pm G_{01}(0-1)_{01}] + G_{3-2}(-10)_{10} [G_{2-1}(0-1)_{01} \pm G_{4-3}(0-1)_{01}] \\ & + G_{2-3}(10)_{10} [G_{3-4}(01)_{01} \pm G_{1-2}(01)_{01}] + G_{4-3}(-10)_{10} [G_{3-2}(0-1)_{01} + G_{5-4}(0-1)_{01}] \\ & + G_{3-4}(10)_{10} [G_{4-5}(01)_{01} \pm G_{2-3}(01)_{01}] + G_{5-4}(-10)_{10} [G_{4-3}(0-1)_{01} \pm G_{6-5}(0-1)_{01}] \\ & + \dots + \dots + \dots \end{aligned} $

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{1}{2} B_{220}(n, -n) \{ 2 G_{00}(00)_{00} [G_{2-2}(-11)_{11} \pm G_{2-2}(1-1)_{11}] \\ & \quad + G_{1-1}(00)_{00} [G_{3-3}(-11)_{11} \pm G_{1-1}(-11)_{11} + G_{1-1}(1-1)_{11} \pm G_{3-3}(1-1)_{11}] \\ & \quad + G_{2-2}(00)_{00} [G_{4-4}(-11)_{11} \pm G_{4-4}(1-1)_{11}] \\ & \quad + G_{3-3}(00)_{00} [G_{5-5}(-11)_{11} \pm G_{1-1}(1-1)_{11} \pm G_{1-1}(-11)_{11} \pm G_{5-5}(1-1)_{11}] \\ & \quad + G_{4-4}(00)_{00} [G_{6-6}(-11)_{11} \pm G_{2-2}(1-1)_{11} \pm G_{2-2}(-11)_{11} \pm G_{6-6}(1-1)_{11}] \\ & \quad + \dots \\ & \quad + G_{01}(-10)_{10} [G_{2-3}(01)_{01} \pm G_{2-1}(0-1)_{01}] + G_{2-1}(-10)_{10} [G_{01}(0-1)_{01} \pm G_{4-3}(0-1)_{01}] \\ & \quad + G_{1-2}(10)_{10} [G_{3-4}(01)_{01} \pm G_{3-2}(-10)_{10} G_{5-4}(0-1)_{01}] \\ & \quad + G_{2-3}(10)_{10} [G_{4-5}(01)_{01} \pm G_{01}(0-1)_{01}] + G_{4-3}(-10)_{10} [G_{2-1}(0-1)_{01} \pm G_{6-5}(0-1)_{01}] \\ & \quad + G_{3-4}(10)_{10} [G_{5-6}(01)_{01} \pm G_{1-2}(01)_{01}] + G_{5-4}(-10)_{10} [G_{3-2}(0-1)_{01} \pm G_{7-6}(0-1)_{01}] \\ & \quad + G_{4-5}(10)_{10} [G_{6-7}(01)_{01} \pm G_{2-3}(01)_{01}] + \dots \\ & \quad + \dots \} \\ & + \dots \end{aligned} $
$1-\mu+\zeta-\mu\zeta'$	$\eta\eta'$	$P_{1-1}(1-1)_{11} = B_{211}(n-1, -n+1)$
$2-2\mu+\zeta-\mu\zeta'$	$\eta\eta'$	$ \begin{aligned} & P_{2-2}(1-1)_{11} = B_{311}(n-1, -n+1) \\ & + \frac{1}{2} B_{110}(n, -n) [G_{1-1}(1-1)_{11} \pm G_{3-3}(1-1)_{11}] + \frac{1}{2} B_{020}(n+1, -n) G_{3-2}(0-1)_{01} \\ & + \frac{1}{2} B_{210}(n, -n) [G_{00}(1-1)_{11} \pm G_{4-4}(1-1)_{11}] \pm \frac{1}{2} B_{120}(n+1, -n) G_{4-3}(0-1)_{01} \\ & + \frac{1}{2} B_{310}(n, -n) [G_{1-1}(-11)_{11} \pm G_{5-5}(1-1)_{11}] \pm \frac{1}{2} B_{220}(n+1, -n) G_{5-4}(0-1)_{01} \\ & + \frac{1}{2} B_{410}(n, -n) [G_{2-2}(-11)_{11} \pm G_{6-6}(1-1)_{11}] \pm \dots \\ & + \dots \\ & + \frac{1}{2} B_{020}(n-1, -n) G_{3-2}(0-1)_{01} + \frac{1}{2} B_{011}(n, -n+1) G_{2-3}(10)_{10} + \frac{1}{2} B_{011}(n, -n-1) G_{2-3}(10)_{10} \\ & + \frac{1}{2} B_{120}(n-1, -n) G_{2-1}(0-1)_{01} + \frac{1}{2} B_{111}(n, -n+1) G_{1-2}(10)_{10} \pm \frac{1}{2} B_{111}(n, -n-1) G_{3-4}(10)_{10} \\ & + \frac{1}{2} B_{320}(n-1, -n) G_{01}(0-1)_{01} + \frac{1}{2} B_{211}(n, -n+1) G_{01}(-10)_{10} \pm \frac{1}{2} B_{211}(n, -n-1) G_{4-5}(10)_{10} \\ & + \frac{1}{2} B_{420}(n-1, -n) G_{1-2}(01)_{01} + \frac{1}{2} B_{411}(n, -n+1) G_{2-1}(-10)_{10} \pm \frac{1}{2} B_{311}(n, -n-1) G_{5-6}(10)_{10} \\ & + \dots \\ & + \frac{1}{2} B_{021}(n+1, -n-1) G_{3-3}(00)_{00} + \frac{1}{2} B_{021}(n-1, -n+1) G_{3-3}(00)_{00} \\ & \pm \frac{1}{2} B_{121}(n+1, -n-1) G_{4-4}(00)_{00} + \frac{1}{2} B_{121}(n-1, -n+1) G_{2-2}(00)_{00} \\ & \pm \frac{1}{2} B_{221}(n+1, -n-1) G_{5-5}(00)_{00} + \frac{1}{2} B_{221}(n-1, -n+1) G_{1-1}(00)_{00} \\ & \pm \dots \end{aligned} $
$3-3\mu+\zeta-\mu\zeta'$	$\eta\eta'$	$P_{3-3}(1-1)_{11} = B_{411}(n-1, -n+1)$
$4-4\mu+\zeta-\mu\zeta'$	$\eta\eta'$	$P_{4-4}(1-1)_{11} = B_{511}(n-1, -n+1)$
		u. s. w.
	η'^2	$ \begin{aligned} & P_{00}(00)_{02} = B_{002}(n, -n) + B_{000}(n, -n)_{01} \\ & + \frac{1}{2} B_{110}(n, -n) G_{1-1}(00)_{02} + \{ B_{012}(n, -n) + B_{010}(n, -n)_{01} \} G_{00}(00)_{00} \\ & + \frac{1}{2} B_{210}(n, -n) G_{2-2}(00)_{02} + \frac{1}{2} \{ B_{112}(n, -n) + B_{110}(n, -n)_{01} \} G_{1-1}(00)_{00} \\ & + \frac{1}{2} B_{310}(n, -n) G_{3-3}(00)_{02} + \frac{1}{2} \{ B_{212}(n, -n) + B_{210}(n, -n)_{01} \} G_{2-2}(00)_{00} \\ & + \dots \\ & + \frac{1}{2} B_{011}(n, -n+1) G_{01}(0-1)_{01} + \frac{1}{2} B_{011}(n, -n-1) G_{01}(0-1)_{01} \\ & + \frac{1}{2} B_{211}(n, -n+1) G_{2-1}(0-1)_{01} + \frac{1}{2} B_{111}(n, -n-1) G_{1-2}(01)_{01} \\ & + \frac{1}{2} B_{311}(n, -n+1) G_{3-2}(0-1)_{01} + \frac{1}{2} B_{211}(n, -n-1) G_{2-3}(01)_{01} \\ & + \dots \end{aligned} $

Argument	Exc.	Coefficient
1— μ	η'^2	$P_{1-1}(00)_{02} = B_{102}(n, -n) + B_{100}(n, -n)_{01}$
2—2 μ	η'^2	$P_{2-2}(00)_{02} = B_{202}(n, -n) + B_{200}(n, -n)_{01}$ $+ \frac{1}{2} B_{110}(n, -n) [G_{1-1}(00)_{02} \pm G_{3-3}(00)_{02}] + \{B_{012}(n, -n) + B_{010}(n, -n)_{01}\} G_{2-2}(00)_{00}$ $+ \frac{1}{2} B_{210}(n, -n) [2 G_{00}(00)_{02} \pm G_{4-4}(00)_{02}] + \frac{1}{2} \{B_{112}(n, -n) + B_{110}(n, -n)_{01}\} [G_{1-1}(00)_{00} \pm G_{3-3}(00)_{00}]$ $+ \frac{1}{2} B_{310}(n, -n) [G_{1-1}(00)_{02} \pm G_{5-5}(00)_{02}] + \frac{1}{2} \{B_{212}(n, -n) + B_{210}(n, -n)_{01}\} [2 G_{00}(00)_{00} \pm G_{4-4}(00)_{00}]$ $+ \frac{1}{2} B_{410}(n, -n) [G_{2-2}(00)_{02} \pm G_{6-6}(00)_{02}] + \frac{1}{2} \{B_{312}(n, -n) + B_{310}(n, -n)_{01}\} [G_{1-1}(00)_{00} \pm G_{5-5}(00)_{00}]$ $+ \frac{1}{2} B_{011}(n, -n+1) [G_{2-3}(01)_{01} + G_{2-1}(0-1)_{01}] + \frac{1}{2} B_{011}(n, -n-1) [G_{2-1}(0-1)_{01} + G_{2-3}(01)_{01}]$ $+ \frac{1}{2} B_{111}(n, -n+1) [G_{1-2}(01)_{01} \pm G_{3-2}(0-1)_{01}] \pm \frac{1}{2} B_{111}(n, -n-1) [G_{3-2}(0-1)_{01} \pm G_{1-2}(01)_{01}]$ $+ \frac{1}{2} B_{211}(n, -n+1) [G_{01}(0-1)_{01} \pm G_{4-3}(0-1)_{01}] + \frac{1}{2} B_{211}(n, -n-1) [G_{01}(0-1)_{01} \pm G_{4-5}(01)_{01}]$ $\pm \frac{1}{2} B_{311}(n, -n+1) [G_{5-4}(0-1)_{01} \pm G_{5-6}(01)_{01}] + \frac{1}{2} B_{311}(n, -n-1) [G_{1-2}(01)_{01} \pm G_{5-6}(01)_{01}]$ $\pm \dots + \dots$
3—3 μ	η'^2	$P_{3-3}(00)_{02} = B_{302}(n, -n) + B_{300}(n, -n)_{01}$ $+ \frac{1}{2} B_{110}(n, -n) [G_{2-2}(00)_{02} \pm G_{4-4}(00)_{02}] + \frac{1}{2} B_{011}(n, -n+1) [G_{3-4}(01)_{01} + G_{3-2}(0-1)_{01}]$ $+ \frac{1}{2} B_{210}(n, -n) [G_{1-1}(00)_{02} \pm G_{5-5}(00)_{02}] + \frac{1}{2} B_{111}(n, -n+1) [G_{2-3}(01)_{01} \pm G_{4-3}(0-1)_{01}]$ $+ \frac{1}{2} B_{310}(n, -n) [2 G_{00}(00)_{02} \pm G_{6-6}(00)_{02}] + \frac{1}{2} B_{211}(n, -n+1) [G_{1-2}(01)_{01} \pm G_{5-4}(0-1)_{01}]$ $+ \frac{1}{2} B_{410}(n, -n) [G_{1-1}(00)_{02} \pm G_{7-7}(00)_{02}] + \frac{1}{2} B_{311}(n, -n+1) [G_{01}(0-1)_{01} \pm G_{6-5}(0-1)_{01}]$ $+ \frac{1}{2} B_{011}(n, -n-1) [G_{3-2}(0-1)_{01} + G_{3-4}(01)_{01}] + \{B_{012}(n, -n) + B_{010}(n, -n)_{01}\} G_{3-3}(00)_{00}$ $+ \frac{1}{2} B_{111}(n, -n-1) [G_{2-1}(0-1)_{01} \pm G_{4-5}(01)_{01}] + \frac{1}{2} \{B_{112}(n, -n) + B_{110}(n, -n)_{01}\} [G_{2-2}(00)_{00} \pm G_{4-4}(00)_{00}]$ $\pm \frac{1}{2} B_{211}(n, -n-1) [G_{5-6}(01)_{01} \pm G_{5-4}(0-1)_{01}] + \frac{1}{2} \{B_{212}(n, -n) + B_{210}(n, -n)_{01}\} [G_{1-1}(00)_{00} \pm G_{5-5}(00)_{00}]$ $+ \frac{1}{2} B_{311}(n, -n-1) [G_{01}(0-1)_{01} \pm G_{6-7}(01)_{01}] + \frac{1}{2} \{B_{312}(n, -n) + B_{310}(n, -n)_{01}\} [2 G_{00}(00)_{00} \pm G_{6-6}(00)_{00}]$ $+ \frac{1}{2} B_{411}(n, -n-1) [G_{1-2}(01)_{01} \pm G_{7-8}(01)_{01}] + \frac{1}{2} \{B_{412}(n, -n) + B_{410}(n, -n)_{01}\} [G_{1-1}(00)_{00} \pm G_{7-7}(00)_{00}]$ $+ \dots + \dots$
4—4 μ	η'^2	$P_{4-4}(00)_{02} = B_{402}(n, -n) + B_{400}(n, -n)_{01}$
5—5 μ	η'^2	$P_{5-5}(00)_{02} = B_{502}(n, -n) + B_{500}(n, -n)_{01}$ u. s. w.
2 μ —2 μ_S'	η'^2	$P_{02}(0-2)_{02} = B_{002}(n, -n+2) + B_{002}(n, -n-2)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{1-3}(02)_{02} \pm G_{11}(0-2)_{02}] + \frac{1}{2} B_{011}(n, -n+1) G_{01}(0-1)_{01}$ $+ \frac{1}{2} B_{210}(n, -n) [G_{2-4}(02)_{02} \pm G_{20}(0-2)_{02}] + \frac{1}{2} B_{111}(n, -n+1) G_{1-2}(01)_{01}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{3-5}(02)_{02} \pm G_{3-1}(0-2)_{02}] + \frac{1}{2} B_{211}(n, -n+1) G_{2-3}(01)_{01}$ $+ \frac{1}{2} B_{011}(n, -n-1) G_{01}(0-1)_{01} + B_{012}(n, -n+2) G_{00}(00)_{00} + B_{012}(n, -n-2) G_{00}(00)_{00}$ $\pm \frac{1}{2} B_{211}(n, -n-1) G_{2-1}(0-1)_{01} + \frac{1}{2} B_{112}(n, -n+2) G_{1-1}(00)_{00} \pm \frac{1}{2} B_{112}(n, -n-2) G_{1-1}(00)_{00}$ $\pm \frac{1}{2} B_{311}(n, -n-1) G_{3-2}(0-1)_{01} + \frac{1}{2} B_{212}(n, -n+2) G_{2-2}(00)_{00} \pm \frac{1}{2} B_{212}(n, -n-2) G_{2-2}(00)_{00}$ $\pm \dots + \dots$
1+ μ —2 μ_S'	η'^2	$P_{11}(0-2)_{02} = B_{102}(n, -n+2)$
2—2 μ_S'	η'^2	$P_{20}(0-2)_{02} = B_{202}(n, -n+2)$
3— μ —2 μ_S'	η'^2	$P_{3-1}(0-2)_{02} = B_{302}(n, -n+2)$

Argument	Exc.	Coefficient
$4-2\mu-2\mu\zeta'$	η'^2	$P_{4-2}(0-2)_{02} = B_{402}(n, -n+2)$ u. s. w.
$1-3\mu+2\mu\zeta'$	η'^2	$P_{1-3}(02)_{02} = B_{102}(n, -n-2)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{02}(0-2)_{02} \pm G_{2-4}(02)_{02}] + \frac{1}{2} B_{011}(n, -n+1) G_{1-2}(01)_{01}$ $+ \frac{1}{2} B_{210}(n, -n) [G_{11}(0-2)_{02} \pm G_{3-5}(02)_{02}] \pm \frac{1}{2} B_{111}(n, -n+1) G_{2-3}(01)_{01}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{20}(0-2)_{02} \pm G_{4-6}(02)_{02}] \pm \frac{1}{2} B_{211}(n, -n+1) G_{3-4}(01)_{01}$ $+ \frac{1}{2} B_{410}(n, -n) [G_{3-1}(0-2)_{02} \pm G_{5-7}(02)_{02}] \pm \frac{1}{2} B_{311}(n, -n+1) G_{4-5}(01)_{01}$ $+ \dots \pm \dots$ $+ \frac{1}{2} B_{011}(n, -n-1) G_{1-2}(01)_{01} + \frac{1}{2} B_{012}(n, -n+2) G_{1-1}(00)_{00} + \frac{1}{2} B_{012}(n, -n-2) G_{1-1}(00)_{00}$ $+ \frac{1}{2} B_{111}(n, -n-1) G_{01}(0-1)_{01} \pm \frac{1}{2} B_{112}(n, -n+2) G_{2-2}(00)_{00} + B_{112}(n, -n-2) G_{00}(00)_{00}$ $+ \frac{1}{2} B_{311}(n, -n-1) G_{2-1}(0-1)_{01} \pm \frac{1}{2} B_{212}(n, -n+2) G_{3-3}(00)_{00} + \frac{1}{2} B_{212}(n, -n-2) G_{1-1}(00)_{00}$ $+ \dots \pm \dots + \frac{1}{2} B_{312}(n, -n-2) G_{2-2}(00)_{00}$ $+ \dots$
$2-4\mu+2\mu\zeta'$	η'^2	$P_{2-4}(02)_{02} = B_{202}(n, -n-2)$ $+ \frac{1}{2} B_{110}(n, -n) [G_{1-3}(02)_{02} \pm G_{3-5}(02)_{02}] + \frac{1}{2} B_{011}(n, -n+1) G_{2-3}(01)_{01}$ $+ \frac{1}{2} B_{210}(n, -n) [G_{02}(0-2)_{02} \pm G_{4-6}(02)_{02}] \pm \frac{1}{2} B_{111}(n, -n+1) G_{3-4}(01)_{01}$ $+ \frac{1}{2} B_{310}(n, -n) [G_{11}(0-2)_{02} \pm G_{5-7}(02)_{02}] \pm \frac{1}{2} B_{211}(n, -n+1) G_{4-5}(01)_{01}$ $+ \dots \pm \dots$ $+ \frac{1}{2} B_{011}(n, -n-1) G_{2-3}(01)_{01} + \frac{1}{2} B_{012}(n, -n+2) G_{2-2}(00)_{00} + \frac{1}{2} B_{012}(n, -n-2) G_{2-2}(00)_{00}$ $+ \frac{1}{2} B_{111}(n, -n-1) G_{1-2}(01)_{01} \pm \frac{1}{2} B_{112}(n, -n+2) G_{3-3}(00)_{00} + \frac{1}{2} B_{112}(n, -n-2) G_{1-1}(00)_{00}$ $+ \frac{1}{2} B_{211}(n, -n-1) G_{01}(0-1)_{01} \pm \frac{1}{2} B_{212}(n, -n+2) G_{4-4}(00)_{00} + B_{212}(n, -n-2) G_{00}(00)_{00}$ $+ \frac{1}{2} B_{411}(n, -n-1) G_{2-1}(0-1)_{01} \pm \frac{1}{2} B_{312}(n, -n+2) G_{5-5}(00)_{00} + \frac{1}{2} B_{312}(n, -n-2) G_{1-1}(00)_{00}$ $+ \dots \pm \dots + \dots$
$3-5\mu+2\mu\zeta'$	η'^2	$P_{3-5}(02)_{02} = B_{302}(n, -n-2)$
$4-6\mu+2\mu\zeta'$	η'^2	$P_{4-6}(02)_{02} = B_{402}(n, -n-2)$
$5-7\mu+2\mu\zeta'$	η'^2	$P_{5-7}(02)_{02} = B_{502}(n, -n-2)$ u. s. w.
$1-\zeta$	η^3	$P_{10}(-10)_{30} = B_{030}(n+1, -n) + B_{010}(n+1, -n)_{10} + B_{030}(n-1, -n) + B_{010}(n-1, -n)_{10}$
$1-2\zeta+\mu\zeta'$	$\eta^2\eta'$	$P_{10}(-21)_{21} = B_{121}(n-2, -n+1)$
$1-\mu\zeta'$	$\eta^2\eta'$	$P_{10}(0-1)_{21} = B_{121}(n, -n+1) + B_{101}(n, -n+1)_{10}$
$1+\zeta-2\mu\zeta'$	$\eta\eta'^2$	$P_{10}(1-2)_{12} = B_{212}(n-1, -n+2)$
$1-\zeta$	$\eta\eta'^2$	$P_{10}(-10)_{12} = B_{012}(n+1, -n) + B_{010}(n+1, -n)_{01} + B_{012}(n-1, -n) + B_{010}(n-1, -n)_{01}$
$1-\mu\zeta'$	η'^3	$P_{10}(0-1)_{03} = B_{103}(n, -n+1) + B_{101}(n, -n+1)_{01}$

Formeln für die Entwicklungskoeffizienten $C_{\nu\nu'}(nn')_{ss'}$.

Argument	Exc.	Coefficient
—	—	$C_{00}(00)_{00} = -P_{00}(00)_{00} + 2S_{00}(00)_{00}$ $+ S_{00}(00)_{00} [S_{00}(00)_{00} - 2P_{00}(00)_{00}]$ $+ S_{1-1}(00)_{00} [\frac{1}{2} S_{1-1}(00)_{00} - P_{1-1}(00)_{00}] + \frac{1}{2} Q_{1-1}(00)_{00} K_{1-1}(00)_{00}$ $+ S_{2-2}(00)_{00} [\frac{1}{2} S_{2-2}(00)_{00} - P_{2-2}(00)_{00}] + \frac{1}{2} Q_{2-2}(00)_{00} K_{2-2}(00)_{00}$ $+ S_{3-3}(00)_{00} [\frac{1}{2} S_{3-3}(00)_{00} - P_{3-3}(00)_{00}] + \frac{1}{2} Q_{3-3}(00)_{00} K_{3-3}(00)_{00}$ $+ \dots + \dots + \dots$
1— μ	—	$C_{1-1}(00)_{00} = -P_{1-1}(00)_{00} + 2S_{1-1}(00)_{00}$
2—2 μ	—	$C_{2-2}(00)_{00} = -P_{2-2}(00)_{00} + 2S_{2-2}(00)_{00}$ $+ S_{1-1}(00)_{00} [S_{3-3}(00)_{00} + S_{1-1}(00)_{00} - P_{3-3}(00)_{00} - P_{1-1}(00)_{00}] + \frac{1}{2} Q_{1-1}(00)_{00} [K_{3-3}(00)_{00} - K_{1-1}(00)_{00}]$ $+ S_{2-2}(00)_{00} [S_{4-4}(00)_{00} + 2S_{00}(00)_{00} - P_{4-4}(00)_{00} - 2P_{00}(00)_{00}] + \frac{1}{2} Q_{2-2}(00)_{00} K_{4-4}(00)_{00}$ $+ S_{3-3}(00)_{00} [S_{5-5}(00)_{00} + S_{1-1}(00)_{00} - P_{5-5}(00)_{00} - P_{1-1}(00)_{00}] + \frac{1}{2} Q_{3-3}(00)_{00} [K_{5-5}(00)_{00} + K_{1-1}(00)_{00}]$ $+ S_{4-4}(00)_{00} [S_{6-6}(00)_{00} + S_{2-2}(00)_{00} - P_{6-6}(00)_{00} - P_{2-2}(00)_{00}]$ $+ \dots + \dots + \dots$
3—3 μ	—	$C_{3-3}(00)_{00} = -P_{3-3}(00)_{00} + 2S_{3-3}(00)_{00}$
4—4 μ	—	$C_{1-4}(00)_{00} = -P_{4-4}(00)_{00} + 2S_{4-4}(00)_{00}$ u. s. w.
1— ς	η	$C_{10}(-10)_{10} = -P_{10}(-10)_{10} + 2S_{10}(-10)_{10}$ $+ 2S_{00}(00)_{00} [S_{10}(-10)_{10} - P_{10}(-10)_{10}] - 2P_{00}(00)_{00} S_{10}(-10)_{10}$ $+ S_{1-1}(00)_{00} [S_{2-1}(-10)_{10} + S_{01}(-10)_{10} - P_{2-1}(-10)_{10} - P_{01}(-10)_{10}] - P_{1-1}(00)_{00} [S_{2-1}(-10)_{10} + S_{01}(-10)_{10}]$ $+ S_{2-2}(00)_{00} [S_{3-2}(-10)_{10} + S_{1-2}(10)_{10} - P_{3-2}(-10)_{10} - P_{1-2}(10)_{10}] - P_{2-2}(00)_{00} [S_{3-2}(-10)_{10} + S_{1-2}(10)_{10}]$ $+ S_{3-3}(00)_{00} [S_{4-3}(-10)_{10} + S_{2-3}(10)_{10} - P_{4-3}(-10)_{10} - P_{2-3}(10)_{10}] - P_{3-3}(00)_{00} [S_{4-3}(-10)_{10} + S_{2-3}(10)_{10}]$ $+ \dots + \dots + \dots$ $+ \frac{1}{2} Q_{1-1}(00)_{00} [K_{2-1}(-10)_{10} - K_{01}(-10)_{10}] + \frac{1}{2} K_{1-1}(00)_{00} [Q_{2-1}(-10)_{10} - Q_{01}(-10)_{10}]$ $+ \frac{1}{2} Q_{2-2}(00)_{00} [K_{3-2}(-10)_{10} + K_{1-2}(10)_{10}] + \frac{1}{2} K_{2-2}(00)_{00} [Q_{3-2}(-10)_{10} + Q_{1-2}(10)_{10}]$ $+ \frac{1}{2} Q_{3-3}(00)_{00} [K_{4-3}(-10)_{10} + K_{2-3}(10)_{10}] + \frac{1}{2} K_{3-3}(00)_{00} [Q_{4-3}(-10)_{10} + Q_{2-3}(10)_{10}]$ $+ \dots + \dots + \dots$
2— μ — ς	η	$C_{2-1}(-10)_{10} = -P_{2-1}(-10)_{10} + 2S_{2-1}(-10)_{10} - \frac{1}{2} Q_{1-1}(00)_{00}$
3—2 μ — ς	η	$C_{3-2}(-10)_{10} = -P_{3-2}(-10)_{10} + 2S_{3-2}(-10)_{10} - \frac{1}{2} Q_{2-2}(00)_{00}$
4—3 μ — ς	η	$C_{4-3}(-10)_{10} = -P_{4-3}(-10)_{10} + 2S_{4-3}(-10)_{10} - \frac{1}{2} Q_{3-3}(00)_{00}$
5—4 μ — ς	η	$C_{5-4}(-10)_{10} = -P_{5-4}(-10)_{10} + 2S_{5-4}(-10)_{10} - \frac{1}{2} Q_{4-4}(00)_{00}$
6—5 μ — ς	η	$C_{6-5}(-10)_{10} = -P_{6-5}(-10)_{10} + 2S_{6-5}(-10)_{10} - \frac{1}{2} Q_{5-5}(00)_{00}$ u. s. w.
μ — ς	η	$C_{01}(-10)_{10} = -P_{01}(-10)_{10} + 2S_{01}(-10)_{10} + \frac{1}{2} Q_{1-1}(00)_{00}$

Argument	Exc.	Coefficient
$1-2\mu+s$	η	$ \begin{aligned} C_{1-2}(10)_{10} = & -P_{1-2}(10)_{10} + 2S_{1-2}(10)_{10} + \frac{1}{2}Q_{2-2}(00)_{00} \\ & + 2S_{00}(00)_{00}[S_{1-2}(10)_{10} - P_{1-2}(10)_{10} - \frac{1}{4}Q_{2-2}(00)_{00}] - 2P_{00}(00)_{00}S_{1-2}(10)_{10} \\ & + S_{1-1}(00)_{00}[S_{2-3}(10)_{10} + S_{01}(-10)_{10} - P_{2-3}(10)_{10} - P_{01}(-10)_{10} - \frac{1}{4}Q_{3-3}(00)_{00} - \frac{1}{4}Q_{1-1}(00)_{00}] \\ & + S_{2-2}(00)_{00}[S_{3-4}(10)_{10} + S_{10}(-10)_{10} - P_{3-4}(10)_{10} - P_{10}(-10)_{10} - \frac{1}{4}Q_{4-4}(00)_{00}] \\ & + S_{3-3}(00)_{00}[S_{4-5}(10)_{10} + S_{2-1}(-10)_{10} - P_{4-5}(10)_{10} - P_{2-1}(-10)_{10} - \frac{1}{4}Q_{5-5}(00)_{00} + \frac{1}{4}Q_{1-1}(00)_{00}] \\ & + \\ & - P_{1-1}(00)_{00}[S_{2-3}(10)_{10} + S_{01}(-10)_{10}] + \frac{1}{2}Q_{1-1}(00)_{00}[K_{2-3}(10)_{10} + K_{01}(-10)_{10}] \\ & - P_{2-2}(00)_{00}[S_{3-4}(10)_{10} + S_{10}(-10)_{10}] + \frac{1}{2}Q_{2-2}(00)_{00}[K_{3-4}(10)_{10}] \\ & - P_{3-3}(00)_{00}[S_{4-5}(10)_{10} + S_{2-1}(-10)_{10}] + \frac{1}{2}Q_{3-3}(00)_{00}[K_{4-5}(10)_{10} + K_{2-1}(-10)_{10}] \\ & + \\ & + \frac{1}{2}K_{1-1}(00)_{00}[Q_{2-3}(10)_{10} + Q_{01}(-10)_{10}] \\ & + \frac{1}{2}K_{2-2}(00)_{00}[Q_{3-4}(10)_{10} + Q_{10}(-10)_{10}] \\ & + \frac{1}{2}K_{3-3}(00)_{00}[Q_{4-5}(10)_{10} + Q_{2-1}(-10)_{10}] \\ & + \end{aligned} $
$2-3\mu+s$	η	$ \begin{aligned} C_{2-3}(10)_{10} = & -P_{2-3}(10)_{10} + 2S_{2-3}(10)_{10} + \frac{1}{2}Q_{3-3}(00)_{00} \\ & + 2S_{00}(00)_{00}[S_{2-3}(10)_{10} - P_{2-3}(10)_{10} - \frac{1}{4}Q_{3-3}(00)_{00}] - 2P_{00}(00)_{00}S_{2-3}(10)_{10} \\ & + S_{1-1}(00)_{00}[S_{3-4}(10)_{10} + S_{1-2}(10)_{10} - P_{3-4}(10)_{10} - P_{1-2}(10)_{10} - \frac{1}{4}Q_{4-4}(00)_{00} - \frac{1}{4}Q_{2-2}(00)_{00}] \\ & + S_{2-2}(00)_{00}[S_{4-5}(10)_{10} + S_{01}(-10)_{10} - P_{4-5}(10)_{10} - P_{01}(-10)_{10} - \frac{1}{4}Q_{5-5}(00)_{00} - \frac{1}{4}Q_{1-1}(00)_{00}] \\ & + S_{3-3}(00)_{00}[S_{5-6}(10)_{10} + S_{10}(-10)_{10} - P_{5-6}(10)_{10} - P_{10}(-10)_{10} - \frac{1}{4}Q_{6-6}(00)_{00}] \\ & + S_{4-4}(00)_{00}[S_{6-7}(10)_{10} + S_{2-1}(-10)_{10} - P_{6-7}(10)_{10} - P_{2-1}(-10)_{10} - \frac{1}{4}Q_{7-7}(00)_{00} + \frac{1}{4}Q_{1-1}(00)_{00}] \\ & + \\ & - P_{1-1}(00)_{00}[S_{3-4}(10)_{10} + S_{1-2}(10)_{10}] + \frac{1}{2}Q_{1-1}(00)_{00}[K_{3-4}(10)_{10} - K_{1-2}(10)_{10}] \\ & - P_{2-2}(00)_{00}[S_{4-5}(10)_{10} + S_{01}(-10)_{10}] + \frac{1}{2}Q_{2-2}(00)_{00}[K_{4-5}(10)_{10} + K_{01}(-10)_{10}] \\ & - P_{3-3}(00)_{00}[S_{5-6}(10)_{10} + S_{10}(-10)_{10}] + \frac{1}{2}Q_{3-3}(00)_{00}[K_{5-6}(10)_{10}] \\ & - P_{4-4}(00)_{00}[S_{6-7}(10)_{10} + S_{2-1}(-10)_{10}] + \frac{1}{2}Q_{4-4}(00)_{00}[K_{6-7}(10)_{10} + K_{2-1}(-10)_{10}] \\ & + \\ & + \frac{1}{2}K_{1-1}(00)_{00}[Q_{3-4}(10)_{10} - Q_{1-2}(10)_{10}] \\ & + \frac{1}{2}K_{2-2}(00)_{00}[Q_{4-5}(10)_{10} + Q_{01}(-10)_{10}] \\ & + \frac{1}{2}K_{3-3}(00)_{00}[Q_{5-6}(10)_{10} + Q_{10}(-10)_{10}] \\ & + \frac{1}{2}K_{4-4}(00)_{00}[Q_{6-7}(10)_{10} + Q_{2-1}(-10)_{10}] \\ & + \end{aligned} $
$3-4\mu+s$	η	$C_{3-4}(10)_{10} = -P_{3-4}(10)_{10} + 2S_{3-4}(10)_{10} + \frac{1}{2}Q_{4-4}(00)_{00}$
$4-5\mu+s$	η	$C_{4-5}(10)_{10} = -P_{4-5}(10)_{10} + 2S_{4-5}(10)_{10} + \frac{1}{2}Q_{5-5}(00)_{00}$
$5-6\mu+s$	η	$C_{5-6}(10)_{10} = -P_{5-6}(10)_{10} + 2S_{5-6}(10)_{10} + \frac{1}{2}Q_{6-6}(00)_{00}$
		u. s. w.
$1-\mu s'$	η'	$ \begin{aligned} C_{10}(0-1)_{01} = & -P_{10}(0-1)_{01} + 2S_{10}(0-1)_{01} \\ & + 2S_{00}(00)_{00}[S_{10}(0-1)_{01} - P_{10}(0-1)_{01}] - 2P_{00}(00)_{00}S_{10}(0-1)_{01} \\ & + S_{1-1}(00)_{00}[S_{2-1}(0-1)_{01} + S_{01}(0-1)_{01} - P_{2-1}(0-1)_{01} - P_{01}(0-1)_{01}] - P_{1-1}(00)_{00}[S_{2-1}(0-1)_{01} + S_{01}(0-1)_{01}] \\ & + S_{2-2}(00)_{00}[S_{3-2}(0-1)_{01} + S_{1-2}(01)_{01} - P_{3-2}(0-1)_{01} - P_{1-2}(01)_{01}] - P_{2-2}(00)_{00}[S_{3-2}(0-1)_{01} + S_{1-2}(01)_{01}] \\ & + S_{3-3}(00)_{00}[S_{4-3}(0-1)_{01} + S_{2-3}(01)_{01} - P_{4-3}(0-1)_{01} - P_{2-3}(01)_{01}] - P_{3-3}(00)_{00}[S_{4-3}(0-1)_{01} + S_{2-3}(01)_{01}] \\ & + S_{4-4}(00)_{00}[S_{5-4}(0-1)_{01} + S_{3-4}(01)_{01} - P_{5-4}(0-1)_{01} - P_{3-4}(01)_{01}] - P_{4-4}(00)_{00}[S_{5-4}(0-1)_{01} + S_{3-4}(01)_{01}] \\ & + \end{aligned} $

Argument	Exc.	Coefficient
		$+ \frac{1}{2} Q_{1-1}(00)_{00} [K_{2-1}(0-1)_{01} - K_{01}(0-1)_{01}] + \frac{1}{2} K_{1-1}(00)_{00} [Q_{2-1}(0-1)_{01} - Q_{01}(0-1)_{01}]$ $+ \frac{1}{2} Q_{2-2}(00)_{00} [K_{3-2}(0-1)_{01} + K_{1-2}(01)_{01}] + \frac{1}{2} K_{2-2}(00)_{00} [Q_{3-2}(0-1)_{01} + Q_{1-2}(01)_{01}]$ $+ \frac{1}{2} Q_{3-3}(00)_{00} [K_{4-3}(0-1)_{01} + K_{2-3}(01)_{01}] + \frac{1}{2} K_{3-3}(00)_{00} [Q_{4-3}(0-1)_{01} + Q_{2-3}(01)_{01}]$ $+$
$2-\mu-\mu_S'$	η'	$C_{2-1}(0-1)_{01} = -P_{2-1}(0-1)_{01} + 2S_{2-1}(0-1)_{01}$
$3-2\mu-\mu_S'$	η'	$C_{3-2}(0-1)_{01} = -P_{3-2}(0-1)_{01} + 2S_{3-2}(0-1)_{01}$
$4-3\mu-\mu_S'$	η'	$C_{4-3}(0-1)_{01} = -P_{4-3}(0-1)_{01} + 2S_{4-3}(0-1)_{01}$
$5-4\mu-\mu_S'$	η'	$C_{5-4}(0-1)_{01} = -P_{5-4}(0-1)_{01} + 2S_{5-4}(0-1)_{01}$ u. s. w.
$\mu-\mu_S'$	η'	$C_{01}(0-1)_{01} = -P_{01}(0-1)_{01} + 2S_{01}(0-1)_{01}$
$1-2\mu+\mu_S'$	η'	$C_{1-2}(01)_{01} = -P_{1-2}(01)_{01} + 2S_{1-2}(01)_{01}$ $+ 2S_{00}(00)_{00} [S_{1-2}(01)_{01} - P_{1-2}(01)_{01}] - 2P_{00}(00)_{00} S_{1-2}(01)_{01}$ $+ S_{1-1}(00)_{00} [S_{2-3}(01)_{01} + S_{01}(0-1)_{01} - P_{2-3}(01)_{01} - P_{01}(0-1)_{01}] - P_{1-1}(00)_{00} [S_{2-3}(01)_{01} + S_{01}(0-1)_{01}]$ $+ S_{2-2}(00)_{00} [S_{3-4}(01)_{01} + S_{10}(0-1)_{01} - P_{3-4}(01)_{01} - P_{10}(0-1)_{01}] - P_{2-2}(00)_{00} [S_{3-4}(01)_{01} + S_{10}(0-1)_{01}]$ $+ S_{3-3}(00)_{00} [S_{4-5}(01)_{01} + S_{2-1}(0-1)_{01} - P_{4-5}(01)_{01} - P_{2-1}(0-1)_{01}] - P_{3-3}(00)_{00} [S_{4-5}(01)_{01} + S_{2-1}(0-1)_{01}]$ $+$ $+ \frac{1}{2} Q_{1-1}(00)_{00} [K_{2-3}(01)_{01} + K_{01}(0-1)_{01}] + \frac{1}{2} K_{1-1}(00)_{00} [Q_{2-3}(01)_{01} + Q_{01}(0-1)_{01}]$ $+ \frac{1}{2} Q_{2-2}(00)_{00} K_{3-4}(01)_{01} + \frac{1}{2} K_{2-2}(00)_{00} [Q_{3-4}(01)_{01} + Q_{10}(0-1)_{01}]$ $+ \frac{1}{2} Q_{3-3}(00)_{00} [K_{4-5}(01)_{01} + K_{2-1}(0-1)_{01}] + \frac{1}{2} K_{3-3}(00)_{00} [Q_{4-5}(01)_{01} + Q_{2-1}(0-1)_{01}]$ $+$
$2-3\mu+\mu_S'$	η'	$C_{2-3}(01)_{01} = -P_{2-3}(01)_{01} + 2S_{2-3}(01)_{01}$ $+ 2S_{00}(00)_{00} [S_{2-3}(01)_{01} - P_{2-3}(01)_{01}] - 2P_{00}(00)_{00} S_{2-3}(01)_{01}$ $+ S_{1-1}(00)_{00} [S_{3-4}(01)_{01} + S_{1-2}(01)_{01} - P_{3-4}(01)_{01} - P_{1-2}(01)_{01}] - P_{1-1}(00)_{00} [S_{3-4}(01)_{01} + S_{1-2}(01)_{01}]$ $+ S_{2-2}(00)_{00} [S_{4-5}(01)_{01} + S_{01}(0-1)_{01} - P_{4-5}(01)_{01} - P_{01}(0-1)_{01}] - P_{2-2}(00)_{00} [S_{4-5}(01)_{01} + S_{01}(0-1)_{01}]$ $+ S_{3-3}(00)_{00} [S_{5-6}(01)_{01} + S_{10}(0-1)_{01} - P_{5-6}(01)_{01} - P_{10}(0-1)_{01}] - P_{3-3}(00)_{00} [S_{5-6}(01)_{01} + S_{10}(0-1)_{01}]$ $+$ $+ \frac{1}{2} Q_{1-1}(00)_{00} [K_{3-4}(01)_{01} - K_{1-2}(01)_{01}] + \frac{1}{2} K_{1-1}(00)_{00} [Q_{3-4}(01)_{01} - Q_{1-2}(01)_{01}]$ $+ \frac{1}{2} Q_{2-2}(00)_{00} [K_{4-5}(01)_{01} + K_{01}(0-1)_{01}] + \frac{1}{2} K_{2-2}(00)_{00} [Q_{4-5}(01)_{01} + Q_{01}(0-1)_{01}]$ $+ \frac{1}{2} Q_{3-3}(00)_{00} K_{5-6}(01)_{01} + \frac{1}{2} K_{3-3}(00)_{00} [Q_{5-6}(01)_{01} + Q_{10}(0-1)_{01}]$ $+ \frac{1}{2} Q_{4-4}(00)_{00} [K_{6-7}(01)_{01} + K_{2-1}(0-1)_{01}] + \frac{1}{2} K_{4-4}(00)_{00} [Q_{6-7}(01)_{01} + Q_{2-1}(0-1)_{01}]$ $+$
$3-4\mu+\mu_S'$	η'	$C_{3-4}(01)_{01} = -P_{3-4}(01)_{01} + 2S_{3-4}(01)_{01}$
$4-5\mu+\mu_S'$	η'	$C_{4-5}(01)_{01} = -P_{4-5}(01)_{01} + 2S_{4-5}(01)_{01}$
$5-6\mu+\mu_S'$	η'	$C_{5-6}(01)_{01} = -P_{5-6}(01)_{01} + 2S_{5-6}(01)_{01}$ u. s. w.

Argument	Exc.	Coefficient
—	η^2	$ \begin{aligned} C_{00}(00)_{20} = & -P_{00}(00)_{20} + \frac{1}{2} Q_{10}(-10)_{10} \\ & + 2 S_{00}(00)_{00} [-P_{00}(00)_{20} - \frac{1}{4} Q_{10}(-10)_{10}] \\ & + S_{1-1}(00)_{00} [S_{1-1}(00)_{20} - P_{1-1}(00)_{20} - \frac{1}{4} Q_{2-1}(-10)_{10} - \frac{1}{4} Q_{01}(-10)_{10}] \\ & + S_{2-2}(00)_{00} [S_{2-2}(00)_{20} - P_{2-2}(00)_{20} - \frac{1}{4} Q_{3-2}(-10)_{10} + \frac{1}{4} Q_{1-2}(10)_{10}] \\ & + S_{3-3}(00)_{00} [S_{3-3}(00)_{20} - P_{3-3}(00)_{20} - \frac{1}{4} Q_{4-3}(-10)_{10} + \frac{1}{4} Q_{2-3}(10)_{10}] \\ & + \\ & - S_{1-1}(00)_{20} P_{1-1}(00)_{00} + \frac{1}{4} Q_{1-1}(00)_{00} [S_{2-1}(-10)_{10} - S_{01}(-10)_{10}] \\ & - S_{2-2}(00)_{20} P_{2-2}(00)_{00} + \frac{1}{4} Q_{2-2}(00)_{00} [S_{3-2}(-10)_{10} - S_{1-2}(10)_{10}] \\ & - S_{3-3}(00)_{20} P_{3-3}(00)_{00} + \frac{1}{4} Q_{3-3}(00)_{00} [S_{4-3}(-10)_{10} - S_{2-3}(10)_{10}] \\ & + \\ & + S_{10}(-10)_{10} [\frac{1}{2} S_{10}(-10)_{10} - P_{10}(-10)_{10}] + S_{01}(-10)_{10} [\frac{1}{2} S_{01}(-10)_{10} - P_{01}(-10)_{10}] \\ & + S_{2-1}(-10)_{10} [\frac{1}{2} S_{2-1}(-10)_{10} - P_{2-1}(-10)_{10}] + S_{1-2}(10)_{10} [\frac{1}{2} S_{1-2}(10)_{10} - P_{1-2}(10)_{10}] \\ & + S_{3-2}(-10)_{10} [\frac{1}{2} S_{3-2}(-10)_{10} - P_{3-2}(-10)_{10}] + S_{2-3}(10)_{10} [\frac{1}{2} S_{2-3}(10)_{10} - P_{2-3}(10)_{10}] \\ & + \\ & + \frac{1}{2} Q_{01}(-10)_{10} K_{01}(-10)_{10} + \frac{1}{2} Q_{2-1}(-10)_{10} K_{2-1}(-10)_{10} + \frac{1}{2} Q_{1-1}(00)_{00} K_{1-1}(00)_{20} + \frac{1}{2} Q_{1-1}(00)_{20} K_{1-1}(00)_{00} \\ & + \frac{1}{2} Q_{1-2}(10)_{10} K_{1-2}(10)_{10} + \frac{1}{2} Q_{3-2}(-10)_{10} K_{3-2}(-10)_{10} + \frac{1}{2} Q_{2-2}(00)_{00} K_{2-2}(00)_{20} + \frac{1}{2} Q_{2-2}(00)_{20} K_{2-2}(00)_{00} \\ & + \frac{1}{2} Q_{2-3}(10)_{10} K_{2-3}(10)_{10} + \frac{1}{2} Q_{4-3}(-10)_{10} K_{4-3}(-10)_{10} + \frac{1}{2} Q_{3-3}(00)_{00} K_{3-3}(00)_{20} + \frac{1}{2} Q_{3-3}(00)_{20} K_{3-3}(00)_{00} \\ & + \dots + \dots + \dots + \dots \end{aligned} $
$1-\mu$	η^2	$C_{1-1}(00)_{20} = -P_{1-1}(00)_{20} + 2 S_{1-1}(00)_{20} + \frac{1}{2} Q_{2-1}(-10)_{10} + \frac{1}{2} Q_{01}(-10)_{10}$
$2-2\mu$	η^2	$ \begin{aligned} C_{2-2}(00)_{20} = & -P_{2-2}(00)_{20} + 2 S_{2-2}(00)_{20} + \frac{1}{2} Q_{3-2}(-10)_{10} - \frac{1}{2} Q_{1-2}(10)_{10} \\ & + 2 S_{00}(00)_{00} [S_{2-2}(00)_{20} - P_{2-2}(00)_{20} - \frac{1}{4} Q_{3-2}(-10)_{10} + \frac{1}{4} Q_{1-2}(10)_{10}] \\ & + S_{1-1}(00)_{00} [S_{3-3}(00)_{20} + S_{1-1}(00)_{20} - P_{3-3}(00)_{20} - P_{1-1}(00)_{20} - \frac{1}{4} Q_{4-3}(-10)_{10} - \frac{1}{4} Q_{2-1}(-10)_{10} \\ & \quad + \frac{1}{4} Q_{2-3}(10)_{10} - \frac{1}{4} Q_{01}(-10)_{10}] \\ & + S_{2-2}(00)_{00} [S_{4-4}(00)_{20} - P_{4-4}(00)_{20} - 2 P_{00}(00)_{20} - \frac{1}{4} Q_{5-4}(-10)_{10} - \frac{1}{4} Q_{10}(-10)_{10} \\ & \quad + \frac{1}{4} Q_{3-4}(10)_{10} - \frac{1}{4} Q_{10}(-10)_{10}] \\ & + S_{3-3}(00)_{00} [S_{5-5}(00)_{20} + S_{1-1}(00)_{20} - P_{5-5}(00)_{20} - P_{1-1}(00)_{20} - \frac{1}{4} Q_{6-5}(-10)_{10} - \frac{1}{4} Q_{01}(-10)_{10} \\ & \quad + \frac{1}{4} Q_{4-5}(10)_{10} - \frac{1}{4} Q_{2-1}(-10)_{10}] \\ & + \\ & - S_{1-1}(00)_{20} [P_{3-3}(00)_{00} + P_{1-1}(00)_{00}] + \frac{1}{4} Q_{1-1}(00)_{00} [S_{4-3}(-10)_{10} - S_{2-1}(-10)_{10} - S_{2-3}(10)_{10} + S_{01}(-10)_{10}] \\ & - S_{2-2}(00)_{20} [P_{4-4}(00)_{00} + 2 P_{00}(00)_{00}] + \frac{1}{4} Q_{2-2}(00)_{00} [S_{5-4}(-10)_{10} - S_{10}(-10)_{10} - S_{3-4}(10)_{10} + S_{10}(-10)_{10}] \\ & - S_{3-3}(00)_{20} [P_{5-5}(00)_{00} + P_{1-1}(00)_{00}] + \frac{1}{4} Q_{3-3}(00)_{00} [S_{6-5}(-10)_{10} - S_{01}(-10)_{10} - S_{4-5}(10)_{10} + S_{2-1}(-10)_{10}] \\ & + \\ & + S_{10}(-10)_{10} [S_{3-2}(-10)_{10} + S_{1-2}(10)_{10} - P_{3-2}(-10)_{10} - P_{1-2}(10)_{10}] \\ & + S_{2-1}(-10)_{10} [S_{4-3}(-10)_{10} + S_{01}(-10)_{10} - P_{4-3}(-10)_{10} - P_{01}(-10)_{10}] \\ & + S_{3-2}(-10)_{10} [S_{5-4}(-10)_{10} - P_{5-4}(-10)_{10} - P_{10}(-10)_{10}] \\ & + S_{4-3}(-10)_{10} [S_{6-5}(-10)_{10} - P_{6-5}(-10)_{10} - P_{2-1}(-10)_{10}] \\ & + \\ & + S_{01}(-10)_{10} [S_{2-3}(10)_{10} - P_{2-1}(-10)_{10} - P_{2-3}(10)_{10}] + \frac{1}{2} Q_{1-1}(00)_{00} [K_{3-3}(00)_{20} - K_{1-1}(00)_{20}] \\ & + S_{1-2}(10)_{10} [S_{3-4}(10)_{10} - P_{10}(-10)_{10} - P_{3-4}(10)_{10}] + \frac{1}{2} Q_{2-2}(00)_{00} K_{4-4}(00)_{20} \\ & + S_{2-3}(10)_{10} [S_{4-5}(10)_{10} - P_{01}(-10)_{10} - P_{4-5}(10)_{10}] + \frac{1}{2} Q_{3-3}(00)_{00} [K_{5-5}(00)_{20} + K_{1-1}(00)_{20}] \\ & + S_{3-4}(10)_{10} [S_{5-6}(10)_{10} - P_{1-2}(10)_{10} - P_{5-6}(10)_{10}] + \frac{1}{2} Q_{4-4}(00)_{00} [K_{6-6}(00)_{20} + K_{2-2}(00)_{20}] \\ & + \dots + \dots + \dots + \dots \end{aligned} $

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{1}{2} Q_{1-1}(00)_{20} [K_{3-3}(00)_{00} - K_{1-1}(00)_{00}] + \frac{1}{2} Q_{10}(-10)_{10} [K_{3-2}(-10)_{10} - K_{1-2}(10)_{10}] \\ & + \frac{1}{2} Q_{2-2}(00)_{20} K_{4-4}(00)_{00} + \frac{1}{2} Q_{2-1}(-10)_{10} [K_{4-3}(-10)_{10} + K_{01}(-10)_{10}] \\ & + \frac{1}{2} Q_{3-3}(00)_{20} [K_{5-5}(00)_{00} + K_{1-1}(00)_{00}] + \frac{1}{2} Q_{3-2}(-10)_{10} K_{5-4}(-10)_{10} \\ & + \frac{1}{2} Q_{4-4}(00)_{20} [K_{6-6}(00)_{00} + K_{2-2}(00)_{00}] + \frac{1}{2} Q_{4-3}(-10)_{10} [K_{6-5}(-10)_{10} + K_{2-1}(-10)_{10}] \\ & + \frac{1}{2} Q_{01}(-10)_{10} [K_{2-1}(-10)_{10} - K_{2-3}(10)_{10}] \\ & + \frac{1}{2} Q_{1-2}(10)_{10} K_{3-4}(10)_{10} \\ & + \frac{1}{2} Q_{2-3}(10)_{10} [K_{4-5}(10)_{10} - K_{01}(-10)_{10}] \\ & + \frac{1}{2} Q_{3-4}(10)_{10} [K_{5-6}(10)_{10} + K_{1-2}(10)_{10}] \\ & + \end{aligned} $
3—3 μ	η^2	$C_{3-3}(00)_{20} = -P_{3-3}(00)_{20} + 2S_{3-3}(00)_{20} + \frac{1}{2}Q_{4-3}(-10)_{10} - \frac{1}{2}Q_{2-3}(10)_{10}$
4—4 μ	η^2	$C_{4-4}(00)_{20} = -P_{4-4}(00)_{20} + 2S_{4-4}(00)_{20} + \frac{1}{2}Q_{5-4}(-10)_{10} - \frac{1}{2}Q_{3-4}(10)_{10}$
5—5 μ	η^2	$C_{5-5}(00)_{20} = -P_{5-5}(00)_{20} + 2S_{5-5}(00)_{20} + \frac{1}{2}Q_{6-5}(-10)_{10} - \frac{1}{2}Q_{4-5}(10)_{10}$ u. s. w.
2—2 ζ	η^2	$C_{20}(-20)_{20} = -P_{20}(-20)_{20} + 2S_{20}(-20)_{20} - \frac{1}{2}Q_{10}(-10)_{10}$
3— μ —2 ζ	η^2	$C_{3-1}(-20)_{20} = -P_{3-1}(-20)_{20} + 2S_{3-1}(-20)_{20} - \frac{1}{2}Q_{2-1}(-10)_{10}$
4—2 μ —2 ζ	η^2	$C_{4-2}(-20)_{20} = -P_{4-2}(-20)_{20} + 2S_{4-2}(-20)_{20} - \frac{1}{2}Q_{3-2}(-10)_{10}$
5—3 μ —2 ζ	η^2	$C_{5-3}(-20)_{20} = -P_{5-3}(-20)_{20} + 2S_{5-3}(-20)_{20} - \frac{1}{2}Q_{4-3}(-10)_{10}$ u. s. w.
1+ μ —2 ζ	η^2	$C_{11}(-20)_{20} = -P_{11}(-20)_{20} + 2S_{11}(-20)_{20} - \frac{1}{2}Q_{01}(-10)_{10}$
2 μ —2 ζ	η^2	$ \begin{aligned} & C_{02}(-20)_{20} = -P_{02}(-20)_{20} + 2S_{02}(-20)_{20} + \frac{1}{2}Q_{1-2}(10)_{10} \\ & + 2S_{00}(00)_{00} [S_{02}(-20)_{20} - P_{02}(-20)_{20} - \frac{1}{4}Q_{1-2}(10)_{10}] \\ & + S_{1-1}(00)_{00} [S_{1-3}(20)_{20} + S_{11}(-20)_{20} - P_{1-3}(20)_{20} - P_{11}(-20)_{20} - \frac{1}{4}Q_{2-3}(10)_{10} + \frac{1}{4}Q_{01}(-10)_{10}] \\ & + S_{2-2}(00)_{00} [S_{2-4}(20)_{20} + S_{20}(-20)_{20} - P_{2-4}(20)_{20} - P_{20}(-20)_{20} - \frac{1}{4}Q_{3-4}(10)_{10} + \frac{1}{4}Q_{10}(-10)_{10}] \\ & + S_{3-3}(00)_{00} [S_{3-5}(20)_{20} + S_{3-1}(-20)_{20} - P_{3-5}(20)_{20} - P_{3-1}(-20)_{20} - \frac{1}{4}Q_{4-5}(10)_{10} + \frac{1}{4}Q_{2-1}(-10)_{10}] \\ & + \\ & - 2P_{00}(00)_{00} S_{02}(-20)_{20} \\ & - P_{1-1}(00)_{00} [S_{1-3}(20)_{20} + S_{11}(-20)_{20}] + \frac{1}{4}Q_{1-1}(00)_{00} [S_{2-3}(10)_{10} - S_{01}(-10)_{10}] \\ & - P_{2-2}(00)_{00} [S_{2-4}(20)_{20} + S_{20}(-20)_{20}] + \frac{1}{4}Q_{2-2}(00)_{00} [S_{3-4}(10)_{10} - S_{10}(-10)_{10}] \\ & - P_{3-3}(00)_{00} [S_{3-5}(20)_{20} + S_{3-1}(-20)_{20}] + \frac{1}{4}Q_{3-3}(00)_{00} [S_{4-5}(10)_{10} - S_{2-1}(-10)_{10}] \\ & + \\ & - S_{10}(-10)_{10} P_{1-2}(10)_{10} + S_{01}(-10)_{10} [\frac{1}{2}S_{01}(-10)_{10} - P_{01}(-10)_{10}] \\ & - S_{2-1}(-10)_{10} P_{2-3}(10)_{10} + S_{1-2}(10)_{10} [S_{10}(-10)_{10} - P_{10}(-10)_{10}] \\ & - S_{3-2}(-10)_{10} P_{3-4}(10)_{10} + S_{2-3}(10)_{10} [S_{2-1}(-10)_{10} - P_{2-1}(-10)_{10}] \\ & - S_{4-3}(-10)_{10} P_{4-5}(10)_{10} + S_{3-4}(10)_{10} [S_{3-2}(-10)_{10} - P_{3-2}(-10)_{10}] \\ & + \end{aligned} $

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{1}{2} Q_{1-1}(00)_{00} [K_{1-3}(20)_{20} + K_{11}(-20)_{20}] + \frac{1}{2} K_{1-1}(00)_{00} [Q_{1-3}(20)_{20} + Q_{11}(-20)_{20}] \\ & + \frac{1}{2} Q_{2-2}(00)_{00} [K_{2-4}(20)_{20} + K_{20}(-20)_{20}] + \frac{1}{2} K_{2-2}(00)_{00} [Q_{2-4}(20)_{20} + Q_{20}(-20)_{20}] \\ & + \frac{1}{2} Q_{3-3}(00)_{00} [K_{3-5}(20)_{20} + K_{3-1}(-20)_{20}] + \frac{1}{2} K_{3-3}(00)_{00} [Q_{3-5}(20)_{20} + Q_{3-1}(-20)_{20}] \\ & + \dots + \dots + \dots + \dots \\ & + \frac{1}{2} K_{2-1}(-10)_{10} Q_{2-3}(10)_{10} - \frac{1}{2} K_{01}(-10)_{10} Q_{01}(-10)_{10} \\ & + \frac{1}{2} K_{3-2}(-10)_{10} Q_{3-4}(10)_{10} + \frac{1}{2} K_{1-2}(10)_{10} Q_{10}(-10)_{10} \\ & + \frac{1}{2} K_{4-3}(-10)_{10} Q_{4-5}(10)_{10} + \frac{1}{2} K_{2-3}(10)_{10} Q_{2-1}(-10)_{10} \\ & + \dots + \dots + \dots + \dots \end{aligned} $
$1-3\mu+2\zeta$	η^2	$ \begin{aligned} C_{1-3}(20)_{20} = & -P_{1-3}(20)_{20} + 2S_{1-3}(20)_{20} + \frac{1}{2} Q_{2-3}(10)_{10} \\ & + 2S_{00}(00)_{00} [S_{1-3}(20)_{20} - P_{1-3}(20)_{20} - \frac{1}{4} Q_{2-3}(10)_{10}] \\ & + S_{1-1}(00)_{00} [S_{2-4}(20)_{20} + S_{02}(-20)_{20} - P_{2-4}(20)_{20} - P_{02}(-20)_{20} - \frac{1}{4} Q_{3-4}(10)_{10} - \frac{1}{4} Q_{1-2}(10)_{10}] \\ & + S_{2-2}(00)_{00} [S_{3-5}(20)_{20} + S_{11}(-20)_{20} - P_{3-5}(20)_{20} - P_{11}(-20)_{20} - \frac{1}{4} Q_{4-5}(10)_{10} + \frac{1}{4} Q_{01}(-10)_{10}] \\ & + S_{3-3}(00)_{00} [S_{4-6}(20)_{20} + S_{20}(-20)_{20} - P_{4-6}(20)_{20} - P_{20}(-20)_{20} - \frac{1}{4} Q_{5-6}(10)_{10} + \frac{1}{4} Q_{10}(-10)_{10}] \\ & + S_{4-4}(00)_{00} [S_{5-7}(20)_{20} + S_{3-1}(-20)_{20} - P_{5-7}(20)_{20} - P_{3-1}(-20)_{20} - \frac{1}{4} Q_{6-7}(10)_{10} + \frac{1}{4} Q_{2-1}(-10)_{10}] \\ & + \dots + \dots + \dots + \dots \\ & - 2P_{00}(00)_{00} S_{1-3}(20)_{20} \\ & - P_{1-1}(00)_{00} [S_{2-4}(20)_{20} + S_{02}(-20)_{20}] + \frac{1}{4} Q_{1-1}(00)_{00} [S_{3-4}(10)_{10} - S_{1-2}(10)_{10}] \\ & - P_{2-2}(00)_{00} [S_{3-5}(20)_{20} + S_{11}(-20)_{20}] + \frac{1}{4} Q_{2-2}(00)_{00} [S_{4-5}(10)_{10} - S_{01}(-10)_{10}] \\ & - P_{3-3}(00)_{00} [S_{4-6}(20)_{20} + S_{20}(-20)_{20}] + \frac{1}{4} Q_{3-3}(00)_{00} [S_{5-6}(10)_{10} - S_{10}(-10)_{10}] \\ & - \dots + \dots + \dots + \dots \\ & - S_{01}(-10)_{10} P_{1-2}(10)_{10} + S_{1-2}(10)_{10} [S_{01}(-10)_{10} - P_{01}(-10)_{10}] \\ & - S_{10}(-10)_{10} P_{2-3}(10)_{10} + S_{2-3}(10)_{10} [S_{10}(-10)_{10} - P_{10}(-10)_{10}] \\ & - S_{2-1}(-10)_{10} P_{3-4}(10)_{10} + S_{3-4}(10)_{10} [S_{2-1}(-10)_{10} - P_{2-1}(-10)_{10}] \\ & - S_{3-2}(-10)_{10} P_{4-5}(10)_{10} + S_{4-5}(10)_{10} [S_{3-2}(-10)_{10} - P_{3-2}(-10)_{10}] \\ & - \dots + \dots + \dots + \dots \\ & + \frac{1}{2} Q_{1-1}(00)_{00} [K_{2-4}(20)_{20} + K_{02}(-20)_{20}] + \frac{1}{2} K_{1-1}(00)_{00} [Q_{2-4}(20)_{20} + Q_{02}(-20)_{20}] \\ & + \frac{1}{2} Q_{2-2}(00)_{00} [K_{3-5}(20)_{20} + K_{11}(-20)_{20}] + \frac{1}{2} K_{2-2}(00)_{00} [Q_{3-5}(20)_{20} + Q_{11}(-20)_{20}] \\ & + \frac{1}{2} Q_{3-3}(00)_{00} [K_{4-6}(20)_{20} + K_{20}(-20)_{20}] + \frac{1}{2} K_{3-3}(00)_{00} [Q_{4-6}(20)_{20} + Q_{20}(-20)_{20}] \\ & + \dots + \dots + \dots + \dots \\ & + \frac{1}{2} K_{2-1}(-10)_{10} Q_{3-4}(10)_{10} + \frac{1}{2} K_{01}(-10)_{10} Q_{1-2}(10)_{10} \\ & + \frac{1}{2} K_{3-2}(-10)_{10} Q_{4-5}(10)_{10} + \frac{1}{2} K_{1-2}(10)_{10} Q_{01}(-10)_{10} \\ & + \frac{1}{2} K_{4-3}(-10)_{10} Q_{5-6}(10)_{10} + \frac{1}{2} K_{2-3}(10)_{10} Q_{10}(-10)_{10} \\ & + \frac{1}{2} K_{5-4}(-10)_{10} Q_{6-7}(10)_{10} + \frac{1}{2} K_{3-4}(10)_{10} Q_{2-1}(-10)_{10} \\ & + \dots + \dots + \dots + \dots \end{aligned} $
$2-4\mu+2\zeta$	η^2	$ \begin{aligned} C_{2-4}(20)_{20} = & -P_{2-4}(20)_{20} + 2S_{2-4}(20)_{20} + \frac{1}{2} Q_{3-4}(10)_{10} \\ & + 2S_{00}(00)_{00} [S_{2-4}(20)_{20} - P_{2-4}(20)_{20} - \frac{1}{4} Q_{3-4}(10)_{10}] \\ & + S_{1-1}(00)_{00} [S_{3-5}(20)_{20} + S_{1-3}(20)_{20} - P_{3-5}(20)_{20} - P_{1-3}(20)_{20} - \frac{1}{4} Q_{4-5}(10)_{10} - \frac{1}{4} Q_{2-3}(10)_{10}] \\ & + S_{2-2}(00)_{00} [S_{4-6}(20)_{20} + S_{02}(-20)_{20} - P_{4-6}(20)_{20} - P_{02}(-20)_{20} - \frac{1}{4} Q_{5-6}(10)_{10} - \frac{1}{4} Q_{1-2}(10)_{10}] \\ & + S_{3-3}(00)_{00} [S_{5-7}(20)_{20} + S_{11}(-20)_{20} - P_{5-7}(20)_{20} - P_{11}(-20)_{20} - \frac{1}{4} Q_{6-7}(10)_{10} + \frac{1}{4} Q_{01}(-10)_{10}] \\ & + \dots + \dots + \dots + \dots \end{aligned} $

Argument	Exc.	Coefficient
		$ \begin{aligned} & - 2 P_{00}(00)_{00} S_{2-4}(20)_{20} \\ & - P_{1-1}(00)_{00} [S_{3-5}(20)_{20} + S_{1-3}(20)_{20}] + \frac{1}{4} Q_{1-1}(00)_{00} [S_{4-5}(10)_{10} - S_{2-3}(10)_{10}] \\ & - P_{2-2}(00)_{00} [S_{4-6}(20)_{20} + S_{02}(-20)_{20}] + \frac{1}{4} Q_{2-2}(00)_{00} [S_{5-6}(10)_{10} - S_{1-2}(10)_{10}] \\ & - P_{3-3}(00)_{00} [S_{5-7}(20)_{20} + S_{11}(-20)_{20}] + \frac{1}{4} Q_{3-3}(00)_{00} [S_{6-7}(10)_{10} - S_{01}(-10)_{10}] \\ & + \\ & - S_{01}(-10)_{10} P_{2-3}(10)_{10} + S_{1-2}(10)_{10} [\frac{1}{2} S_{1-2}(10)_{10} - P_{1-2}(10)_{10}] \\ & - S_{10}(-10)_{10} P_{3-4}(10)_{10} + S_{2-3}(10)_{10} [S_{01}(-10)_{10} - P_{01}(-10)_{10}] \\ & - S_{2-1}(-10)_{10} P_{4-5}(10)_{10} + S_{3-4}(10)_{10} [S_{10}(-10)_{10} - P_{10}(-10)_{10}] \\ & - S_{3-2}(-10)_{10} P_{5-6}(10)_{10} + S_{4-5}(10)_{10} [S_{2-1}(-10)_{10} - P_{2-1}(-10)_{10}] \\ & + \\ & + \frac{1}{2} Q_{1-1}(00)_{00} [K_{3-5}(20)_{20} - K_{1-3}(20)_{20}] + \frac{1}{2} K_{1-1}(00)_{00} [Q_{3-5}(20)_{20} - Q_{1-3}(20)_{20}] \\ & + \frac{1}{2} Q_{2-2}(00)_{00} [K_{4-6}(20)_{20} + K_{02}(-20)_{20}] + \frac{1}{2} K_{2-2}(00)_{00} [Q_{4-6}(20)_{20} + Q_{02}(-20)_{20}] \\ & + \frac{1}{2} Q_{3-3}(00)_{00} [K_{5-7}(20)_{20} + K_{11}(-20)_{20}] + \frac{1}{2} K_{3-3}(00)_{00} [Q_{5-7}(20)_{20} + Q_{11}(-20)_{20}] \\ & + \\ & + \frac{1}{2} K_{2-1}(-10)_{10} Q_{4-5}(10)_{10} + \frac{1}{2} K_{01}(-10)_{10} Q_{2-3}(10)_{10} \\ & + \frac{1}{2} K_{3-2}(-10)_{10} Q_{5-6}(10)_{10} - \frac{1}{2} K_{1-2}(10)_{10} Q_{1-2}(10)_{10} \\ & + \frac{1}{2} K_{4-3}(-10)_{10} Q_{6-7}(10)_{10} + \frac{1}{2} K_{2-3}(10)_{10} Q_{01}(-10)_{10} \\ & + \\ & + \frac{1}{2} K_{3-4}(10)_{10} Q_{10}(-10)_{10} \\ & + \end{aligned} $
$3-5\mu+2\varsigma$	η^2	$C_{3-5}(20)_{20} = -P_{3-5}(20)_{20} + 2S_{3-5}(20)_{20} + \frac{1}{2}Q_{4-5}(10)_{10}$
$4-6\mu+2\varsigma$	η^2	$C_{4-6}(20)_{20} = -P_{4-6}(20)_{20} + 2S_{4-6}(20)_{20} + \frac{1}{2}Q_{5-6}(10)_{10}$ u. s. w.
$1+\mu-\varsigma-\mu\varsigma'$	$\eta\eta'$	$C_{11}(-1-1)_{11} = -P_{11}(-1-1)_{11} + 2S_{11}(-1-1)_{11} - \frac{1}{2}Q_{01}(0-1)_{01}$
$2-\varsigma-\mu\varsigma'$	$\eta\eta'$	$C_{20}(-1-1)_{11} = -P_{20}(-1-1)_{11} + 2S_{20}(-1-1)_{11} - \frac{1}{2}Q_{10}(0-1)_{01}$
$3-\mu-\varsigma-\mu\varsigma'$	$\eta\eta'$	$C_{3-1}(-1-1)_{11} = -P_{3-1}(-1-1)_{11} + 2S_{3-1}(-1-1)_{11} - \frac{1}{2}Q_{2-1}(0-1)_{01}$
$4-2\mu-\varsigma-\mu\varsigma'$	$\eta\eta'$	$C_{4-2}(-1-1)_{11} = -P_{4-2}(-1-1)_{11} + 2S_{4-2}(-1-1)_{11} - \frac{1}{2}Q_{3-2}(0-1)_{01}$
$5-3\mu-\varsigma-\mu\varsigma'$	$\eta\eta'$	$C_{5-3}(-1-1)_{11} = -P_{5-3}(-1-1)_{11} + 2S_{5-3}(-1-1)_{11} - \frac{1}{2}Q_{4-3}(0-1)_{01}$ u. s. w.
$2\mu-\varsigma-\mu\varsigma'$	$\eta\eta'$	$ \begin{aligned} & C_{02}(-1-1)_{11} = -P_{02}(-1-1)_{11} + 2S_{02}(-1-1)_{11} + \frac{1}{2}Q_{1-2}(01)_{01} \\ & + 2S_{00}(00)_{00} [S_{02}(-1-1)_{11} - P_{02}(-1-1)_{11} - \frac{1}{4}Q_{1-2}(01)_{01}] \\ & + S_{1-1}(00)_{00} [S_{1-3}(11)_{11} + S_{11}(-1-1)_{11} - P_{1-3}(11)_{11} - P_{11}(-1-1)_{11} - \frac{1}{4}Q_{2-3}(01)_{01} + \frac{1}{4}Q_{01}(0-1)_{01}] \\ & + S_{2-2}(00)_{00} [S_{2-4}(11)_{11} + S_{20}(-1-1)_{11} - P_{2-4}(11)_{11} - P_{20}(-1-1)_{11} - \frac{1}{4}Q_{3-4}(01)_{01} + \frac{1}{4}Q_{10}(0-1)_{01}] \\ & + S_{3-3}(00)_{00} [S_{3-5}(11)_{11} + S_{3-1}(-1-1)_{11} - P_{3-5}(11)_{11} - P_{3-1}(-1-1)_{11} - \frac{1}{4}Q_{4-5}(01)_{01} + \frac{1}{4}Q_{2-1}(0-1)_{01}] \\ & + \\ & - 2P_{00}(00)_{00} S_{02}(-1-1)_{11} \\ & - P_{1-1}(00)_{00} [S_{1-3}(11)_{11} + S_{11}(-1-1)_{11}] + \frac{1}{4}Q_{1-1}(00)_{00} [S_{2-3}(01)_{01} - S_{01}(0-1)_{01}] \\ & - P_{2-2}(00)_{00} [S_{2-4}(11)_{11} + S_{20}(-1-1)_{11}] + \frac{1}{4}Q_{2-2}(00)_{00} [S_{3-4}(01)_{01} - S_{10}(0-1)_{01}] \\ & - P_{3-3}(00)_{00} [S_{3-5}(11)_{11} + S_{3-1}(-1-1)_{11}] + \frac{1}{4}Q_{3-3}(00)_{00} [S_{4-5}(01)_{01} - S_{2-1}(0-1)_{01}] \\ & + \end{aligned} $

Argument	Exc.	C o e f f i c i e n t
$2-2\mu-s+\mu s'$	$\eta\eta'$	$C_{2-2}(-11)_{11} = -P_{2-2}(-11)_{11} + 2S_{2-2}(-11)_{11} - \frac{1}{2}Q_{1-2}(01)_{01}$ $+ 2S_{00}(00)_{00}[S_{2-2}(-11)_{11} - P_{2-2}(-11)_{11} + \frac{1}{4}Q_{1-2}(01)_{01}]$ $+ S_{1-1}(00)_{00}[S_{3-3}(-11)_{11} + S_{1-1}(-11)_{11} - P_{3-3}(-11)_{11} - P_{1-1}(-11)_{11} + \frac{1}{4}Q_{2-3}(01)_{01} - \frac{1}{4}Q_{01}(0-1)_{01}]$ $+ S_{2-2}(00)_{00}[S_{4-4}(-11)_{11} - P_{4-4}(-11)_{11} - P_{00}(1-1)_{11} + \frac{1}{4}Q_{3-4}(01)_{01} - \frac{1}{4}Q_{10}(0-1)_{01}]$ $+ S_{3-3}(00)_{00}[S_{5-5}(-11)_{11} + S_{1-1}(1-1)_{11} - P_{5-5}(-11)_{11} - P_{1-1}(1-1)_{11} + \frac{1}{4}Q_{4-5}(01)_{01} - \frac{1}{4}Q_{2-1}(0-1)_{01}]$ $+ - 2P_{00}(00)_{00}S_{2-2}(-11)_{11}$ $- P_{1-1}(00)_{00}[S_{3-3}(-11)_{11} + S_{1-1}(-11)_{11}] + \frac{1}{4}Q_{1-1}(00)_{00}[S_{01}(0-1)_{01} - S_{2-3}(01)_{01}]$ $- P_{2-2}(00)_{00}S_{4-4}(-11)_{11} + \frac{1}{4}Q_{2-2}(00)_{00}[S_{10}(0-1)_{01} - S_{3-4}(01)_{01}]$ $- P_{3-3}(00)_{00}[S_{5-5}(-11)_{11} + S_{1-1}(1-1)_{11}] + \frac{1}{4}Q_{3-3}(00)_{00}[S_{2-1}(0-1)_{01} - S_{4-5}(01)_{01}]$ $+ S_{10}(-10)_{10}[S_{1-2}(01)_{01} - P_{1-2}(01)_{01}] - P_{10}(-10)_{10}S_{1-2}(01)_{01}$ $+ S_{2-1}(-10)_{10}[S_{01}(0-1)_{01} - P_{01}(0-1)_{01}] - P_{2-1}(-10)_{10}S_{01}(0-1)_{01}$ $+ S_{3-2}(-10)_{10}[S_{10}(0-1)_{01} - P_{10}(0-1)_{01}] - P_{3-2}(-10)_{10}S_{10}(0-1)_{01}$ $+ S_{01}(-10)_{10}[S_{2-3}(01)_{01} - P_{2-3}(01)_{01}] - P_{01}(-10)_{10}S_{2-3}(01)_{01}$ $+ S_{1-2}(10)_{10}[S_{3-4}(01)_{01} - P_{3-4}(01)_{01}] - P_{1-2}(10)_{10}S_{3-4}(01)_{01}$ $+ S_{2-3}(10)_{10}[S_{4-5}(01)_{01} - P_{4-5}(01)_{01}] - P_{2-3}(10)_{10}S_{4-5}(01)_{01}$ $+ \frac{1}{2}Q_{1-1}(00)_{00}[K_{3-3}(-11)_{11} - K_{1-1}(-11)_{11}] + \frac{1}{2}K_{1-1}(00)_{00}[Q_{3-3}(-11)_{11} - Q_{1-1}(-11)_{11}]$ $+ \frac{1}{2}Q_{2-2}(00)_{00}[K_{4-4}(-11)_{11} + K_{00}(1-1)_{11}] + \frac{1}{2}K_{2-2}(00)_{00}[Q_{4-4}(-11)_{11} + Q_{00}(1-1)_{11}]$ $+ \frac{1}{2}Q_{3-3}(00)_{00}[K_{5-5}(-11)_{11} + K_{1-1}(1-1)_{11}] + \frac{1}{2}K_{3-3}(00)_{00}[Q_{5-5}(-11)_{11} + Q_{1-1}(1-1)_{11}]$ $+ \frac{1}{2}Q_{4-4}(00)_{00}[K_{6-6}(-11)_{11} + K_{2-2}(1-1)_{11}] + \frac{1}{2}K_{4-4}(00)_{00}[Q_{6-6}(-11)_{11} + Q_{2-2}(1-1)_{11}]$ $- \frac{1}{2}Q_{10}(-10)_{10}K_{1-2}(01)_{01} - \frac{1}{2}Q_{01}(-10)_{10}K_{2-3}(01)_{01} + \frac{1}{2}Q_{10}(0-1)_{01}K_{3-2}(-10)_{10} + \frac{1}{2}Q_{01}(0-1)_{01}K_{2-1}(-10)_{10}$ $+ \frac{1}{2}Q_{2-1}(-10)_{10}K_{01}(0-1)_{01} + \frac{1}{2}Q_{1-2}(10)_{10}K_{3-4}(01)_{01} + \frac{1}{2}Q_{2-1}(0-1)_{01}K_{4-3}(-10)_{10} - \frac{1}{2}Q_{2-3}(01)_{01}K_{01}(-10)_{10}$ $+ \frac{1}{2}Q_{4-3}(-10)_{10}K_{2-1}(0-1)_{01} + \frac{1}{2}Q_{2-3}(10)_{10}K_{4-5}(01)_{01} + \frac{1}{2}Q_{3-2}(0-1)_{01}K_{5-4}(-10)_{10} + \frac{1}{2}Q_{3-4}(01)_{01}K_{1-2}(10)_{10}$ $+ \frac{1}{2}Q_{5-4}(-10)_{10}K_{3-2}(0-1)_{01} + \frac{1}{2}Q_{3-4}(10)_{10}K_{5-6}(01)_{01} + \frac{1}{2}Q_{4-3}(0-1)_{01}K_{6-5}(-10)_{10} + \frac{1}{2}Q_{4-5}(01)_{01}K_{2-3}(10)_{10}$
$3-3\mu-s+\mu s'$	$\eta\eta'$	$C_{3-3}(-11)_{11} = -P_{3-3}(-11)_{11} + 2S_{3-3}(-11)_{11} - \frac{1}{2}Q_{2-3}(01)_{01}$
$4-4\mu-s+\mu s'$	$\eta\eta'$	$C_{4-4}(-11)_{11} = -P_{4-4}(-11)_{11} + 2S_{4-4}(-11)_{11} - \frac{1}{2}Q_{3-4}(01)_{01}$
$5-5\mu-s+\mu s'$	$\eta\eta'$	$C_{5-5}(-11)_{11} = -P_{5-5}(-11)_{11} + 2S_{5-5}(-11)_{11} - \frac{1}{2}Q_{4-5}(01)_{01}$ u. s. w.
$s-\mu s'$	$\eta\eta'$	$C_{00}(1-1)_{11} = -P_{00}(1-1)_{11} + \frac{1}{2}Q_{10}(0-1)_{01}$ $- 2S_{00}(00)_{00}[P_{00}(1-1)_{11} + \frac{1}{4}Q_{10}(0-1)_{01}]$ $+ S_{1-1}(00)_{00}[S_{1-1}(1-1)_{11} + S_{1-1}(-11)_{11} - P_{1-1}(1-1)_{11} - P_{1-1}(-11)_{11} - \frac{1}{4}Q_{2-1}(0-1)_{01} - \frac{1}{4}Q_{01}(0-1)_{01}]$ $+ S_{2-2}(00)_{00}[S_{2-2}(-11)_{11} + S_{2-2}(1-1)_{11} - P_{2-2}(1-1)_{11} - P_{2-2}(-11)_{11} - \frac{1}{4}Q_{3-2}(0-1)_{01} + \frac{1}{4}Q_{1-2}(01)_{01}]$ $+ S_{3-3}(00)_{00}[S_{3-3}(1-1)_{11} + S_{3-3}(-11)_{11} - P_{3-3}(1-1)_{11} - P_{3-3}(-11)_{11} - \frac{1}{4}Q_{4-3}(0-1)_{01} + \frac{1}{4}Q_{2-3}(01)_{01}]$

[illegible]

Argument	Exc.	Coefficient
		$ \begin{aligned} &+ S_{01}(0-1)_{01} [S_{2-3}(01)_{01} - P_{2-1}(0-1)_{01} - P_{2-3}(01)_{01}] \\ &+ S_{1-2}(01)_{01} [S_{3-4}(01)_{01} - P_{10}(0-1)_{01} - P_{3-4}(01)_{01}] \\ &+ S_{2-3}(01)_{01} [S_{4-5}(01)_{01} - P_{01}(0-1)_{01} - P_{4-5}(01)_{01}] \\ &+ \\ &+ \frac{1}{2} Q_{1-1}(00)_{00} [K_{3-3}(00)_{02} - K_{1-1}(00)_{02}] + \frac{1}{2} Q_{1-1}(00)_{02} [K_{3-3}(00)_{00} - K_{1-1}(00)_{00}] \\ &+ \frac{1}{2} Q_{2-2}(00)_{00} K_{4-4}(00)_{02} + \frac{1}{2} Q_{2-2}(00)_{02} K_{4-4}(00)_{00} \\ &+ \frac{1}{2} Q_{3-3}(00)_{00} [K_{5-5}(00)_{02} + K_{1-1}(00)_{02}] + \frac{1}{2} Q_{3-3}(00)_{02} [K_{5-5}(00)_{00} + K_{1-1}(00)_{00}] \\ &+ \frac{1}{2} Q_{4-4}(00)_{00} [K_{6-6}(00)_{02} + K_{2-2}(00)_{02}] + \frac{1}{2} Q_{4-4}(00)_{02} [K_{6-6}(00)_{00} + K_{2-2}(00)_{00}] \\ &+ \\ &+ \frac{1}{2} Q_{10}(0-1)_{01} [K_{3-2}(0-1)_{01} - K_{1-2}(01)_{01}] + \frac{1}{2} Q_{01}(0-1)_{01} [K_{2-1}(0-1)_{01} - K_{2-3}(01)_{01}] \\ &+ \frac{1}{2} Q_{2-1}(0-1)_{01} [K_{4-3}(0-1)_{01} + K_{01}(0-1)_{01}] + \frac{1}{2} Q_{1-2}(01)_{01} K_{3-4}(01)_{01} \\ &+ \frac{1}{2} Q_{3-2}(0-1)_{01} K_{5-4}(0-1)_{01} + \frac{1}{2} Q_{2-3}(01)_{01} [K_{4-5}(01)_{01} - K_{01}(0-1)_{01}] \\ &+ \frac{1}{2} Q_{4-3}(0-1)_{01} [K_{6-5}(0-1)_{01} + K_{2-1}(0-1)_{01}] + \frac{1}{2} Q_{3-4}(01)_{01} [K_{5-6}(01)_{01} + K_{1-2}(01)_{01}] \\ &+ \\ &+ \end{aligned} $
3-3 μ	η'^2	$C_{3-3}(00)_{02} = -P_{3-3}(00)_{02} + 2S_{3-3}(00)_{02}$
4-4 μ	η'^2	$C_{4-4}(00)_{02} = -P_{4-4}(00)_{02} + 2S_{4-4}(00)_{02}$ u. s. w.
2 μ -2 $\mu\zeta'$	η'^2	$ \begin{aligned} &C_{02}(0-2)_{02} = -P_{02}(0-2)_{02} + 2S_{02}(0-2)_{02} \\ &+ 2S_{00}(00)_{00} [S_{02}(0-2)_{02} - P_{02}(0-2)_{02}] - 2P_{00}(00)_{00} S_{02}(0-2)_{02} \\ &+ S_{1-1}(00)_{00} [S_{1-3}(02)_{02} + S_{11}(0-2)_{02} - P_{1-3}(02)_{02} - P_{11}(0-2)_{02}] - P_{1-1}(00)_{00} [S_{1-3}(02)_{02} + S_{11}(0-2)_{02}] \\ &+ S_{2-2}(00)_{00} [S_{2-4}(02)_{02} + S_{20}(0-2)_{02} - P_{2-4}(02)_{02} - P_{20}(0-2)_{02}] - P_{2-2}(00)_{00} [S_{2-4}(02)_{02} + S_{20}(0-2)_{02}] \\ &+ S_{3-3}(00)_{00} [S_{3-5}(02)_{02} + S_{3-1}(0-2)_{02} - P_{3-5}(02)_{02} - P_{3-1}(0-2)_{02}] - P_{3-3}(00)_{00} [S_{3-5}(02)_{02} + S_{3-1}(0-2)_{02}] \\ &+ \\ &- S_{10}(0-1)_{01} P_{1-2}(01)_{01} + S_{01}(0-1)_{01} [\frac{1}{2} S_{01}(0-1)_{01} - P_{01}(0-1)_{01}] \\ &- S_{2-1}(0-1)_{01} P_{2-3}(01)_{01} + S_{1-2}(01)_{01} [S_{10}(0-1)_{01} - P_{10}(0-1)_{01}] \\ &- S_{3-2}(0-1)_{01} P_{3-4}(01)_{01} + S_{2-3}(01)_{01} [S_{2-1}(0-1)_{01} - P_{2-1}(0-1)_{01}] \\ &- \\ &+ \frac{1}{2} Q_{1-1}(00)_{00} [K_{1-3}(02)_{02} + K_{11}(0-2)_{02}] + \frac{1}{2} K_{1-1}(00)_{00} [Q_{1-3}(02)_{02} + Q_{11}(0-2)_{02}] \\ &+ \frac{1}{2} Q_{2-2}(00)_{00} [K_{2-4}(02)_{02} + K_{20}(0-2)_{02}] + \frac{1}{2} K_{2-2}(00)_{00} [Q_{2-4}(02)_{02} + Q_{20}(0-2)_{02}] \\ &+ \frac{1}{2} Q_{3-3}(00)_{00} [K_{3-5}(02)_{02} + K_{3-1}(0-2)_{02}] + \frac{1}{2} K_{3-3}(00)_{00} [Q_{3-5}(02)_{02} + Q_{3-1}(0-2)_{02}] \\ &+ \\ &- \frac{1}{2} Q_{01}(0-1)_{01} K_{01}(0-1)_{01} + \frac{1}{2} Q_{2-3}(01)_{01} K_{2-1}(0-1)_{01} \\ &+ \frac{1}{2} Q_{10}(0-1)_{01} K_{1-2}(01)_{01} + \frac{1}{2} Q_{3-4}(01)_{01} K_{3-2}(0-1)_{01} \\ &+ \frac{1}{2} Q_{2-1}(0-1)_{01} K_{2-3}(01)_{01} + \frac{1}{2} Q_{4-5}(01)_{01} K_{4-3}(0-1)_{01} \\ &+ \\ &+ \end{aligned} $
1+ μ -2 $\mu\zeta'$	η'^2	$C_{11}(0-2)_{02} = -P_{11}(0-2)_{02} + 2S_{11}(0-2)_{02}$
2-2 $\mu\zeta'$	η'^2	$C_{20}(0-2)_{02} = -P_{20}(0-2)_{02} + 2S_{20}(0-2)_{02}$
3- μ -2 $\mu\zeta'$	η'^2	$C_{3-1}(0-2)_{02} = -P_{3-1}(0-2)_{02} + 2S_{3-1}(0-2)_{02}$
4-2 μ -2 $\mu\zeta'$	η'^2	$C_{4-2}(0-2)_{02} = -P_{4-2}(0-2)_{02} + 2S_{4-2}(0-2)_{02}$ u. s. w.

Argument	Exc.	Coefficient
$1-s$	η^3	$C_{10}(-10)_{30} = -P_{10}(-10)_{30} + 2S_{10}(-10)_{30} + \frac{1}{2}Q_{20}(-20)_{20}$
$1-2s+\mu s'$	$\eta^2\eta'$	$C_{10}(-21)_{21} = -P_{10}(-21)_{21} + 2S_{10}(-21)_{21} + \frac{1}{2}Q_{00}(1-1)_{11}$
$1-\mu s'$	$\eta^2\eta'$	$C_{10}(0-1)_{21} = -P_{10}(0-1)_{21} + 2S_{10}(0-1)_{21} - \frac{1}{2}Q_{00}(1-1)_{11} + \frac{1}{2}Q_{20}(-1-1)_{11}$
$1+s-2\mu s'$	$\eta\eta'^2$	$C_{10}(1-2)_{12} = -P_{10}(1-2)_{12} + 2S_{10}(1-2)_{12} + \frac{1}{2}Q_{20}(0-2)_{02}$
$1-s$	$\eta\eta'^2$	$C_{10}(-10)_{12} = -P_{10}(-10)_{12} + 2S_{10}(-10)_{12}$
$1-\mu s'$	η'^3	$C_{10}(0-1)_{03} = -P_{10}(0-1)_{03} + 2S_{10}(0-1)_{03}$

Formeln für die Entwicklungskoeffizienten $T_{\nu\nu'}(nn')_{ss'}$.

Statt der strengen Werthe $R_{\nu\nu'}(nn')_{ss'}$ der Gleichung $R = \sum R_{\nu\nu'}(nn')_{ss'} \eta^s \eta'^{s'} \cos[(\nu + \nu'\mu + ns + n'\mu s')\nu + A]$ sind in erster Näherung die $D_{\nu\nu'}(nn')_{ss'}$ der Gleichung (VII') zu setzen.

Argument	Exc.	Coefficient
—	—	$T_{00}(00)_{00} = S_{00}(00)_{00} - 2R_{00}(00)_{00}$ $+ 3R_{00}(00)_{00}^2 - 2R_{00}(00)_{00}S_{00}(00)_{00}$ $+ \frac{3}{2}R_{1-1}(00)_{00}^2 - R_{1-1}(00)_{00}S_{1-1}(00)_{00}$ $+ \frac{3}{2}R_{2-2}(00)_{00}^2 - R_{2-2}(00)_{00}S_{2-2}(00)_{00}$ $+ \frac{3}{2}R_{3-3}(00)_{00}^2 - R_{3-3}(00)_{00}S_{3-3}(00)_{00}$ $+ \dots - \dots$
$1-\mu$	—	$T_{1-1}(00)_{00} = S_{1-1}(00)_{00} - 2R_{1-1}(00)_{00}$
$2-2\mu$	—	$T_{2-2}(00)_{00} = S_{2-2}(00)_{00} - 2R_{2-2}(00)_{00}$
$3-3\mu$	—	$T_{3-3}(00)_{00} = S_{3-3}(00)_{00} - 2R_{3-3}(00)_{00}$
$4-4\mu$	—	$T_{4-4}(00)_{00} = S_{4-4}(00)_{00} - 2R_{4-4}(00)_{00}$ u. s. w.
$1-s$	η	$T_{10}(-10)_{10} = S_{10}(-10)_{10} + 6R_{00}(00)_{00} - 2S_{00}(00)_{00}$
$2-\mu-s$	η	$T_{2-1}(-10)_{10} = S_{2-1}(-10)_{10} - 2R_{2-1}(-10)_{10} + 3R_{1-1}(00)_{00} - S_{1-1}(00)_{00}$
$3-2\mu-s$	η	$T_{3-2}(-10)_{10} = S_{3-2}(-10)_{10} - 2R_{3-2}(-10)_{10} + 3R_{2-2}(00)_{00} - S_{2-2}(00)_{00}$
$4-3\mu-s$	η	$T_{4-3}(-10)_{10} = S_{4-3}(-10)_{10} - 2R_{4-3}(-10)_{10} + 3R_{3-3}(00)_{00} - S_{3-3}(00)_{00}$
$5-4\mu-s$	η	$T_{5-4}(-10)_{10} = S_{5-4}(-10)_{10} - 2R_{5-4}(-10)_{10} + 3R_{4-4}(00)_{00} - S_{4-4}(00)_{00}$ u. s. w.
$\mu-s$	η	$T_{01}(-10)_{10} = S_{01}(-10)_{10} - 2R_{01}(-10)_{10} + 3R_{1-1}(00)_{00} - S_{1-1}(00)_{00}$
$1-2\mu+s$	η	$T_{1-2}(10)_{10} = S_{1-2}(10)_{10} - 2R_{1-2}(10)_{10} + 3R_{2-2}(00)_{00} - S_{2-2}(00)_{00}$ $+ R_{00}(00)_{00} [6R_{1-2}(10)_{10} - 2S_{1-2}(10)_{10}] - 2S_{00}(00)_{00}R_{1-2}(10)_{10}$ $+ \{3R_{1-1}(00)_{00} - S_{1-1}(00)_{00}\} [R_{2-3}(10)_{10} + R_{01}(-10)_{10}] - R_{1-1}(00)_{00} [S_{2-3}(10)_{10} + S_{01}(-10)_{10}]$ $+ \{3R_{2-2}(00)_{00} - S_{2-2}(00)_{00}\} R_{3-4}(10)_{10} - R_{2-2}(00)_{00} [S_{3-4}(10)_{10} + S_{10}(-10)_{10}]$ $+ \{3R_{3-3}(00)_{00} - S_{3-3}(00)_{00}\} [R_{4-5}(10)_{10} + R_{2-1}(-10)_{10}] - R_{3-3}(00)_{00} [S_{4-5}(10)_{10} + S_{2-1}(-10)_{10}]$ $+ \{3R_{4-4}(00)_{00} - S_{4-4}(00)_{00}\} [R_{5-6}(10)_{10} + R_{3-2}(-10)_{10}] - R_{4-4}(00)_{00} [S_{5-6}(10)_{10} + S_{3-2}(-10)_{10}]$ $+ \dots$

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{3}{2} S_{1-1}(00)_{00} [R_{1-1}(00)_{00} + R_{3-3}(00)_{00}] \\ & - 3 R_{1-1}(00)_{00} [R_{1-1}(00)_{00} + 2 R_{3-3}(00)_{00}] \\ & + \frac{3}{2} R_{1-1}(00)_{00} [S_{1-1}(00)_{00} + S_{3-3}(00)_{00}] \\ & + \left\{ \frac{3}{2} S_{2-2}(00)_{00} - 6 R_{2-2}(00)_{00} \right\} [2 R_{00}(00)_{00} + R_{4-4}(00)_{00}] + \frac{3}{2} R_{2-2}(00)_{00} [2 S_{00}(00)_{00} + S_{4-4}(00)_{00}] \\ & + \left\{ \frac{3}{2} S_{3-3}(00)_{00} - 6 R_{3-3}(00)_{00} \right\} [R_{1-1}(00)_{00} + R_{5-5}(00)_{00}] + \frac{3}{2} R_{3-3}(00)_{00} [S_{1-1}(00)_{00} + S_{5-5}(00)_{00}] \\ & + \left\{ \frac{3}{2} S_{4-4}(00)_{00} - 6 R_{4-4}(00)_{00} \right\} [R_{2-2}(00)_{00} + R_{6-6}(00)_{00}] + \frac{3}{2} R_{4-4}(00)_{00} [S_{2-2}(00)_{00} + S_{6-6}(00)_{00}] \\ & + \quad \quad \quad + \quad \quad \quad + \quad \quad \quad + \end{aligned} $
$2-3\mu+\varsigma$	η	$T_{2-3}(10)_{10} = S_{2-3}(10)_{10} - 2 R_{2-3}(10)_{10} + 3 R_{3-3}(00)_{00} - S_{3-3}(00)_{00}$
$3-4\mu+\varsigma$	η	$T_{3-4}(10)_{10} = S_{3-4}(10)_{10} - 2 R_{3-4}(10)_{10} + 3 R_{4-4}(00)_{00} - S_{4-4}(00)_{00}$
$4-5\mu+\varsigma$	η	$T_{4-5}(10)_{10} = S_{4-5}(10)_{10} - 2 R_{4-5}(10)_{10} + 3 R_{5-5}(00)_{00} - S_{5-5}(00)_{00}$ u. s. w.
$1-\mu\varsigma'$	η'	$T_{10}(0-1)_{01} = S_{10}(0-1)_{01}$
$2-\mu-\mu\varsigma'$	η'	$T_{2-1}(0-1)_{01} = S_{2-1}(0-1)_{01} - 2 R_{2-1}(0-1)_{01}$
$3-2\mu-\mu\varsigma'$	η'	$T_{3-2}(0-1)_{01} = S_{3-2}(0-1)_{01} - 2 R_{3-2}(0-1)_{01}$
$4-3\mu-\mu\varsigma'$	η'	$T_{4-3}(0-1)_{01} = S_{4-3}(0-1)_{01} - 2 R_{4-3}(0-1)_{01}$
$5-4\mu-\mu\varsigma'$	η'	$T_{5-4}(0-1)_{01} = S_{5-4}(0-1)_{01} - 2 R_{5-4}(0-1)_{01}$ u. s. w.
$\mu-\mu\varsigma'$	η'	$T_{01}(0-1)_{01} = S_{01}(0-1)_{01} - 2 R_{01}(0-1)_{01}$
$1-2\mu+\mu\varsigma'$	η'	$ \begin{aligned} T_{1-2}(01)_{01} &= S_{1-2}(01)_{01} - 2 R_{1-2}(01)_{01} \\ &+ R_{00}(00)_{00} [6 R_{1-2}(01)_{01} - 2 S_{1-2}(01)_{01}] - 2 S_{00}(00)_{00} R_{1-2}(01)_{01} \\ &+ \{3 R_{1-1}(00)_{00} - S_{1-1}(00)_{00}\} [R_{2-3}(01)_{01} + R_{01}(0-1)_{01}] - R_{1-1}(00)_{00} [S_{2-3}(01)_{01} + S_{01}(0-1)_{01}] \\ &+ \{3 R_{2-2}(00)_{00} - S_{2-2}(00)_{00}\} R_{3-4}(01)_{01} - R_{2-2}(00)_{00} [S_{3-4}(01)_{01} + S_{10}(0-1)_{01}] \\ &+ \{3 R_{3-3}(00)_{00} - S_{3-3}(00)_{00}\} [R_{4-5}(01)_{01} + R_{2-1}(0-1)_{01}] - R_{3-3}(00)_{00} [S_{4-5}(01)_{01} + S_{2-1}(0-1)_{01}] \\ &+ \{3 R_{4-4}(00)_{00} - S_{4-4}(00)_{00}\} [R_{5-6}(01)_{01} + R_{3-2}(0-1)_{01}] - R_{4-4}(00)_{00} [S_{5-6}(01)_{01} + S_{3-2}(0-1)_{01}] \\ &+ \quad \quad \quad + \quad \quad \quad + \quad \quad \quad + \end{aligned} $
$2-3\mu+\mu\varsigma'$	η'	$T_{2-3}(01)_{01} = S_{2-3}(01)_{01} - 2 R_{2-3}(01)_{01}$
$3-4\mu+\mu\varsigma'$	η'	$T_{3-4}(01)_{01} = S_{3-4}(01)_{01} - 2 R_{3-4}(01)_{01}$
$4-5\mu+\mu\varsigma'$	η'	$T_{4-5}(01)_{01} = S_{4-5}(01)_{01} - 2 R_{4-5}(01)_{01}$ u. s. w.
—	η^2	$ \begin{aligned} T_{00}(00)_{20} &= -2 R_{00}(00)_{20} - 3 R_{00}(00)_{00} - S_{10}(-10)_{10} \\ &+ 6 R_{00}(00)_{00} R_{00}(00)_{20} - 2 R_{00}(00)_{20} S_{00}(00)_{00} \\ &+ R_{1-1}(00)_{00} [3 R_{1-1}(00)_{20} - S_{1-1}(00)_{20}] - R_{1-1}(00)_{20} S_{1-1}(00)_{00} \\ &+ R_{2-2}(00)_{00} [3 R_{2-2}(00)_{20} - S_{2-2}(00)_{20}] - R_{2-2}(00)_{20} S_{2-2}(00)_{00} \\ &+ R_{3-3}(00)_{00} [3 R_{3-3}(00)_{20} - S_{3-3}(00)_{20}] - R_{3-3}(00)_{20} S_{3-3}(00)_{00} \\ &+ \quad \quad \quad + \quad \quad \quad + \quad \quad \quad + \\ &+ R_{2-1}(-10)_{10} \left[\frac{3}{2} R_{2-1}(-10)_{10} - S_{2-1}(-10)_{10} \right] + R_{01}(-10)_{10} \left[\frac{3}{2} R_{01}(-10)_{10} - S_{01}(-10)_{10} \right] \\ &+ R_{3-2}(-10)_{10} \left[\frac{3}{2} R_{3-2}(-10)_{10} - S_{3-2}(-10)_{10} \right] + R_{1-2}(10)_{10} \left[\frac{3}{2} R_{1-2}(10)_{10} - S_{1-2}(10)_{10} \right] \\ &+ R_{4-3}(-10)_{10} \left[\frac{3}{2} R_{4-3}(-10)_{10} - S_{4-3}(-10)_{10} \right] + R_{2-3}(10)_{10} \left[\frac{3}{2} R_{2-3}(10)_{10} - S_{2-3}(10)_{10} \right] \\ &+ \quad \quad \quad + \quad \quad \quad + \quad \quad \quad + \end{aligned} $

Argument	Exc.	Coefficient
		$+ 3 R_{00}(00)_{00} S_{10}(-10)_{10}$ $+ \{ \frac{3}{2} S_{1-1}(00)_{00} - 6 R_{1-1}(00)_{00} \} [R_{2-1}(-10)_{10} + R_{01}(-10)_{10}] + \frac{3}{2} R_{1-1}(00)_{00} [S_{2-1}(-10)_{10} + S_{01}(-10)_{10}]$ $+ \{ \frac{3}{2} S_{2-2}(00)_{00} - 6 R_{2-2}(00)_{00} \} [R_{3-2}(-10)_{10} + R_{1-2}(10)_{10}] + \frac{3}{2} R_{2-2}(00)_{00} [S_{3-2}(-10)_{10} + S_{1-2}(10)_{10}]$ $+ \{ \frac{3}{2} S_{3-3}(00)_{00} - 6 R_{3-3}(00)_{00} \} [R_{4-3}(-10)_{10} + R_{2-3}(10)_{10}] + \frac{3}{2} R_{3-3}(00)_{00} [S_{4-3}(-10)_{10} + S_{2-3}(10)_{10}]$ $+ \dots + \dots$
1— μ	η^2	$T_{1-1}(00)_{20} = S_{1-1}(00)_{20} - 2 R_{1-1}(00)_{20} - 3 R_{1-1}(00)_{00} + 3 R_{2-1}(-10)_{10} + 3 R_{01}(-10)_{10}$ $- S_{2-1}(-10)_{10} - S_{01}(-10)_{10}$
2—2 μ	η^2	$T_{2-2}(00)_{20} = S_{2-2}(00)_{20} - 2 R_{2-2}(00)_{20} - 3 R_{2-2}(00)_{00} + 3 R_{3-2}(-10)_{10} + 3 R_{1-2}(10)_{10}$ $- S_{3-2}(-10)_{10} - S_{1-2}(10)_{10}$
3—3 μ	η^2	$T_{3-3}(00)_{20} = S_{3-3}(00)_{20} - 2 R_{3-3}(00)_{20} - 3 R_{3-3}(00)_{00} + 3 R_{4-3}(-10)_{10} + 3 R_{2-3}(10)_{10}$ $- S_{4-3}(-10)_{10} - S_{2-3}(10)_{10}$
4—4 μ	η^2	$T_{4-4}(00)_{20} = S_{4-4}(00)_{20} - 2 R_{4-4}(00)_{20} - 3 R_{4-4}(00)_{00} + 3 R_{5-4}(-10)_{10} + 3 R_{3-4}(10)_{10}$ $- S_{5-4}(-10)_{10} - S_{3-4}(10)_{10}$
5—5 μ	η^2	$T_{5-5}(00)_{20} = S_{5-5}(00)_{20} - 2 R_{5-5}(00)_{20} - 3 R_{5-5}(00)_{00} + 3 R_{6-5}(-10)_{10} + 3 R_{4-5}(10)_{10}$ $- S_{6-5}(-10)_{10} - S_{4-5}(10)_{10}$
		u. s. w.
2—2 ς	η^2	$T_{20}(-20)_{20} = S_{20}(-20)_{20} - 2 R_{20}(-20)_{20} - S_{10}(-10)_{10} + \frac{3}{2} S_{00}(00)_{00} - 6 R_{00}(00)_{00}$
3— μ —2 ς	η^2	$T_{3-1}(-20)_{20} = S_{3-1}(-20)_{20} - 2 R_{3-1}(-20)_{20} + 3 R_{2-1}(-10)_{10} - S_{2-1}(-10)_{10} + \frac{3}{4} S_{1-1}(00)_{00} - 3 R_{1-1}(00)_{00}$
4—2 μ —2 ς	η^2	$T_{4-2}(-20)_{20} = S_{4-2}(-20)_{20} - 2 R_{4-2}(-20)_{20} + 3 R_{3-2}(-10)_{10} - S_{3-2}(-10)_{10} + \frac{3}{4} S_{2-2}(00)_{00} - 3 R_{2-2}(00)_{00}$
5—3 μ —2 ς	η^2	$T_{5-3}(-20)_{20} = S_{5-3}(-20)_{20} - 2 R_{5-3}(-20)_{20} + 3 R_{4-3}(-10)_{10} - S_{4-3}(-10)_{10} + \frac{3}{4} S_{3-3}(00)_{00} - 3 R_{3-3}(00)_{00}$
		u. s. w.
1+ μ —2 ς	η^2	$T_{11}(-20)_{20} = S_{11}(-20)_{20} - 2 R_{11}(-20)_{20} + 3 R_{01}(-10)_{10} - S_{01}(-10)_{10} + \frac{3}{4} S_{1-1}(00)_{00} - 3 R_{1-1}(00)_{00}$
2 μ —2 ς	η^2	$T_{02}(-20)_{20} = S_{02}(-20)_{20} - 2 R_{02}(-20)_{20} + 3 R_{1-2}(10)_{10} - S_{1-2}(10)_{10} + \frac{3}{4} S_{2-2}(00)_{00} - 3 R_{2-2}(00)_{00}$
1—3 μ +2 ς	η^2	$T_{1-3}(20)_{20} = S_{1-3}(20)_{20} - 2 R_{1-3}(20)_{20} + 3 R_{2-3}(10)_{10} - S_{2-3}(10)_{10} + \frac{3}{4} S_{3-3}(00)_{00} - 3 R_{3-3}(00)_{00}$ $+ \{ 6 R_{00}(00)_{00} - 2 S_{00}(00)_{00} \} R_{1-3}(20)_{20} - 2 R_{00}(00)_{00} S_{1-3}(20)_{20}$ $+ \{ 3 R_{1-1}(00)_{00} - S_{1-1}(00)_{00} \} [R_{2-4}(20)_{20} + R_{02}(-20)_{20}] - R_{1-1}(00)_{00} [S_{2-4}(20)_{20} + S_{02}(-20)_{20}]$ $+ \{ 3 R_{2-2}(00)_{00} - S_{2-2}(00)_{00} \} [R_{3-5}(20)_{20} + R_{11}(-20)_{20}] - R_{2-2}(00)_{00} [S_{3-5}(20)_{20} + S_{11}(-20)_{20}]$ $+ \{ 3 R_{3-3}(00)_{00} - S_{3-3}(00)_{00} \} [R_{4-6}(20)_{20} + R_{20}(-20)_{20}] - R_{3-3}(00)_{00} [S_{4-6}(20)_{20} + S_{20}(-20)_{20}]$ $+ \{ 3 R_{4-4}(00)_{00} - S_{4-4}(00)_{00} \} [R_{5-7}(20)_{20} + R_{3-1}(-20)_{20}] - R_{4-4}(00)_{00} [S_{5-7}(20)_{20} + S_{3-1}(-20)_{20}]$ $+ \dots$ $+ R_{01}(-10)_{10} [-S_{1-2}(10)_{10}] - R_{2-1}(-10)_{10} S_{3-4}(10)_{10}$ $+ R_{1-2}(10)_{10} [3 R_{01}(-10)_{10} - S_{01}(-10)_{10}] - R_{3-2}(-10)_{10} S_{4-5}(10)_{10}$ $+ R_{2-3}(10)_{10} [-S_{10}(-10)_{10}] - R_{4-3}(-10)_{10} S_{5-6}(10)_{10}$ $+ R_{3-4}(10)_{10} [3 R_{2-1}(-10)_{10} - S_{2-1}(-10)_{10}] - \dots$ $+ R_{4-5}(10)_{10} [3 R_{3-2}(-10)_{10} - S_{3-2}(-10)_{10}]$ $+ \dots$ $+ \{ 3 S_{00}(00)_{00} - 12 R_{00}(00)_{00} \} R_{2-3}(10)_{10} + 3 R_{00}(00)_{00} S_{2-3}(10)_{10}$ $+ \{ \frac{3}{2} S_{1-1}(00)_{00} - 6 R_{1-1}(00)_{00} \} [R_{3-4}(10)_{10} + R_{1-2}(10)_{10}] + \frac{3}{2} R_{1-1}(00)_{00} [S_{3-4}(10)_{10} + S_{1-2}(10)_{10}]$ $+ \{ \frac{3}{2} S_{2-2}(00)_{00} - 6 R_{2-2}(00)_{00} \} [R_{4-5}(10)_{10} + R_{01}(-10)_{10}] + \frac{3}{2} R_{2-2}(00)_{00} [S_{4-5}(10)_{10} + S_{01}(-10)_{10}]$ $+ \{ \frac{3}{2} S_{3-3}(00)_{00} - 6 R_{3-3}(00)_{00} \} R_{5-6}(10)_{10} + \frac{3}{2} R_{3-3}(00)_{00} [S_{5-6}(10)_{10} + S_{10}(-10)_{10}]$ $+ \{ \frac{3}{2} S_{4-4}(00)_{00} - 6 R_{4-4}(00)_{00} \} [R_{6-7}(10)_{10} + R_{2-1}(-10)_{10}] + \frac{3}{2} R_{4-4}(00)_{00} [S_{6-7}(10)_{10} + S_{2-1}(-10)_{10}]$ $+ \dots + \dots$

Argument	Exc.	Coefficient
$2-4\mu+2s$	η^2	$T_{2-4}(20)_{20} = S_{2-4}(20)_{20} - 2 R_{2-4}(20)_{20} + 3 R_{3-4}(10)_{10} - S_{3-4}(10)_{10} + \frac{3}{4} S_{4-4}(00)_{00} - 3 R_{4-4}(00)_{00}$ $+ \{6 R_{00}(00)_{00} - 2 S_{00}(00)_{00}\} R_{2-4}(20)_{20} - 2 R_{00}(00)_{00} S_{2-4}(20)_{20}$ $+ \{3 R_{1-1}(00)_{00} - S_{1-1}(00)_{00}\} [R_{3-5}(20)_{20} + R_{1-3}(20)_{20}] - R_{1-1}(00)_{00} [S_{3-5}(20)_{20} + S_{1-3}(20)_{20}]$ $+ \{3 R_{2-2}(00)_{00} - S_{2-2}(00)_{00}\} [R_{4-6}(20)_{20} + R_{02}(-20)_{20}] - R_{2-2}(00)_{00} [S_{4-6}(20)_{20} + S_{02}(-20)_{20}]$ $+ \{3 R_{3-3}(00)_{00} - S_{3-3}(00)_{00}\} [R_{5-7}(20)_{20} + R_{11}(-20)_{20}] - R_{3-3}(00)_{00} [S_{5-7}(20)_{20} + S_{11}(-20)_{20}]$ $+$ $+ R_{01}(-10)_{10} [-S_{2-3}(10)_{10}] - R_{2-1}(-10)_{10} S_{4-5}(10)_{10}$ $+ R_{1-2}(10)_{10} [\frac{3}{2} R_{1-2}(10)_{10} - S_{1-2}(10)_{10}] - R_{3-2}(-10)_{10} S_{5-6}(10)_{10}$ $+ R_{2-3}(10)_{10} [3 R_{01}(-10)_{10} - S_{01}(-10)_{10}] - R_{4-3}(-10)_{10} S_{6-7}(10)_{10}$ $+ R_{3-4}(10)_{10} [-S_{10}(-10)_{10}]$ $+ R_{4-5}(10)_{10} [3 R_{2-1}(-10)_{10} - S_{2-1}(-10)_{10}]$ $+$ $+ \{3 S_{00}(00)_{00} - 12 R_{00}(00)_{00}\} R_{3-4}(10)_{10} + 3 R_{00}(00)_{00} S_{3-4}(10)_{10}$ $+ \{\frac{3}{2} S_{1-1}(00)_{00} - 6 R_{1-1}(00)_{00}\} [R_{4-5}(10)_{10} + R_{2-3}(10)_{10}] + \frac{3}{2} R_{1-1}(00)_{00} [S_{4-5}(10)_{10} + S_{2-3}(10)_{10}]$ $+ \{\frac{3}{2} S_{2-2}(00)_{00} - 6 R_{2-2}(00)_{00}\} [R_{5-6}(10)_{10} + R_{1-2}(10)_{10}] + \frac{3}{2} R_{2-2}(00)_{00} [S_{5-6}(10)_{10} + S_{1-2}(10)_{10}]$ $+ \{\frac{3}{2} S_{3-3}(00)_{00} - 6 R_{3-3}(00)_{00}\} [R_{6-7}(10)_{10} + R_{01}(-10)_{10}] + \frac{3}{2} R_{3-3}(00)_{00} [S_{6-7}(10)_{10} + S_{01}(-10)_{10}]$ $+$
$3-5\mu+2s$	η^2	$T_{3-5}(20)_{20} = S_{3-5}(20)_{20} - 2 R_{3-5}(20)_{20} + 3 R_{4-5}(10)_{10} - S_{4-5}(10)_{10} + \frac{3}{4} S_{5-5}(00)_{00} - 3 R_{5-5}(00)_{00}$ u. s. w.
$1+\mu-s-\mu s'$	$\eta\eta'$	$T_{11}(-1-1)_{11} = S_{11}(-1-1)_{11} - 2 R_{11}(-1-1)_{11} + 3 R_{01}(0-1)_{01} - S_{01}(0-1)_{01}$
$2-s-\mu s'$	$\eta\eta'$	$T_{20}(-1-1)_{11} = S_{20}(-1-1)_{11} - 2 R_{20}(-1-1)_{11} - S_{10}(0-1)_{01}$
$3-\mu-s-\mu s'$	$\eta\eta'$	$T_{3-1}(-1-1)_{11} = S_{3-1}(-1-1)_{11} - 2 R_{3-1}(-1-1)_{11} + 3 R_{2-1}(0-1)_{01} - S_{2-1}(0-1)_{01}$
$4-2\mu-s-\mu s'$	$\eta\eta'$	$T_{4-2}(-1-1)_{11} = S_{4-2}(-1-1)_{11} - 2 R_{4-2}(-1-1)_{11} + 3 R_{3-2}(0-1)_{01} - S_{3-2}(0-1)_{01}$
$5-3\mu-s-\mu s'$	$\eta\eta'$	$T_{5-3}(-1-1)_{11} = S_{5-3}(-1-1)_{11} - 2 R_{5-3}(-1-1)_{11} + 3 R_{4-3}(0-1)_{01} - S_{4-3}(0-1)_{01}$ u. s. w.
$2\mu-s-\mu s'$	$\eta\eta'$	$T_{02}(-1-1)_{11} = S_{02}(-1-1)_{11} - 2 R_{02}(-1-1)_{11} + 3 R_{1-2}(01)_{01} - S_{1-2}(01)_{01}$
$1-3\mu+s+\mu s'$	$\eta\eta'$	$T_{1-3}(11)_{11} = S_{1-3}(11)_{11} - 2 R_{1-3}(11)_{11} + 3 R_{2-3}(01)_{01} - S_{2-3}(01)_{01}$ $+ \{6 R_{00}(00)_{00} - 2 S_{00}(00)_{00}\} R_{1-3}(11)_{11} - 2 R_{00}(00)_{00} S_{1-3}(11)_{11}$ $+ \{3 R_{1-1}(00)_{00} - S_{1-1}(00)_{00}\} [R_{2-4}(11)_{11} + R_{02}(-1-1)_{11}] - R_{1-1}(00)_{00} [S_{2-4}(11)_{11} + S_{02}(-1-1)_{11}]$ $+ \{3 R_{2-2}(00)_{00} - S_{2-2}(00)_{00}\} [R_{3-5}(11)_{11} + R_{11}(-1-1)_{11}] - R_{2-2}(00)_{00} [S_{3-5}(11)_{11} + S_{11}(-1-1)_{11}]$ $+ \{3 R_{3-3}(00)_{00} - S_{3-3}(00)_{00}\} [R_{4-6}(11)_{11} + R_{20}(-1-1)_{11}] - R_{3-3}(00)_{00} [S_{4-6}(11)_{11} + S_{20}(-1-1)_{11}]$ $+$ $- R_{01}(-10)_{10} S_{1-2}(01)_{01}$ $+ R_{1-2}(10)_{10} [3 R_{01}(0-1)_{01} - S_{01}(0-1)_{01}] - R_{2-1}(-10)_{10} S_{3-4}(01)_{01}$ $- R_{2-3}(10)_{10} S_{10}(0-1)_{01} - R_{3-2}(-10)_{10} S_{4-5}(01)_{01}$ $+ R_{3-4}(10)_{10} [3 R_{2-1}(0-1)_{01} - S_{2-1}(0-1)_{01}] - R_{4-3}(-10)_{10} S_{5-6}(01)_{01}$ $+ R_{4-5}(10)_{10} [3 R_{3-2}(0-1)_{01} - S_{3-2}(0-1)_{01}] - R_{5-4}(-10)_{10} S_{6-7}(01)_{01}$ $+$

Argument	Exc.	Coefficient
		$ \begin{aligned} & - R_{01}(0-1)_{01} S_{1-2}(10)_{10} & - R_{2-1}(0-1)_{01} S_{3-4}(10)_{10} \\ & + R_{1-2}(01)_{01} [3 R_{01}(-10)_{10} - S_{01}(-10)_{10}] & - R_{3-2}(0-1)_{01} S_{4-5}(10)_{10} \\ & - R_{2-3}(01)_{01} S_{10}(-10)_{10} & - R_{4-3}(0-1)_{01} S_{5-6}(10)_{10} \\ & + R_{3-4}(01)_{01} [3 R_{2-1}(-10)_{10} - S_{2-1}(-10)_{10}] & - \dots \\ & + \{3 S_{00}(00)_{00} - 12 R_{00}(00)_{00}\} R_{2-3}(01)_{01} & + 3 R_{00}(00)_{00} S_{2-3}(01)_{01} \\ & + \{\frac{3}{2} S_{1-1}(00)_{00} - 6 R_{1-1}(00)_{00}\} [R_{3-4}(01)_{01} + R_{1-2}(01)_{01}] & + \frac{3}{2} R_{1-1}(00)_{00} [S_{3-4}(01)_{01} + S_{1-2}(01)_{01}] \\ & + \{\frac{3}{2} S_{2-2}(00)_{00} - 6 R_{2-2}(00)_{00}\} [R_{4-5}(01)_{01} + R_{01}(0-1)_{01}] & + \frac{3}{2} R_{2-2}(00)_{00} [S_{4-5}(01)_{01} + S_{01}(0-1)_{01}] \\ & + \{\frac{3}{2} S_{3-3}(00)_{00} - 6 R_{3-3}(00)_{00}\} R_{5-6}(01)_{01} & + \frac{3}{2} R_{3-3}(00)_{00} [S_{5-6}(01)_{01} + S_{10}(0-1)_{01}] \\ & + \{\frac{3}{2} S_{4-4}(00)_{00} - 6 R_{4-4}(00)_{00}\} [R_{6-7}(01)_{01} + R_{2-1}(0-1)_{01}] & + \frac{3}{2} R_{4-4}(00)_{00} [S_{6-7}(01)_{01} + S_{2-1}(0-1)_{01}] \\ & + \dots & + \dots \end{aligned} $
$2-4\mu+\varsigma+\mu\varsigma'$	$\eta\eta'$	$ \begin{aligned} & T_{2-4}(11)_{11} = S_{2-4}(11)_{11} - 2 R_{2-4}(11)_{11} + 3 R_{3-4}(01)_{01} - S_{3-4}(01)_{01} \\ & + \{6 R_{00}(00)_{00} - 2 S_{00}(00)_{00}\} R_{2-4}(11)_{11} & - 2 R_{00}(00)_{00} S_{2-4}(11)_{11} \\ & + \{3 R_{1-1}(00)_{00} - S_{1-1}(00)_{00}\} [R_{3-5}(11)_{11} + R_{1-3}(11)_{11}] & - R_{1-1}(00)_{00} [S_{3-5}(11)_{11} + S_{1-3}(11)_{11}] \\ & + \{3 R_{2-2}(00)_{00} - S_{2-2}(00)_{00}\} [R_{4-6}(11)_{11} + R_{02}(-1-1)_{11}] & - R_{2-2}(00)_{00} [S_{4-6}(11)_{11} + S_{02}(-1-1)_{11}] \\ & + \dots & - \dots \\ & - R_{01}(-10)_{10} S_{2-3}(01)_{01} & \\ & + R_{1-2}(10)_{10} [\frac{3}{2} R_{1-2}(01)_{01} - S_{1-2}(01)_{01}] & - R_{2-1}(-10)_{10} S_{4-5}(01)_{01} \\ & + R_{2-3}(10)_{10} [3 R_{01}(0-1)_{01} - S_{01}(0-1)_{01}] & - R_{3-2}(-10)_{10} S_{5-6}(01)_{01} \\ & - R_{3-4}(10)_{10} S_{10}(0-1)_{01} & - R_{4-3}(-10)_{10} S_{6-7}(01)_{01} \\ & + R_{4-5}(10)_{10} [3 R_{2-1}(0-1)_{01} - S_{2-1}(0-1)_{01}] & - \dots \\ & + \dots & \\ & - R_{01}(0-1)_{01} S_{2-3}(10)_{10} & - R_{2-1}(0-1)_{01} S_{4-5}(10)_{10} \\ & + R_{1-2}(01)_{01} [\frac{3}{2} R_{1-2}(10)_{10} - S_{1-2}(10)_{10}] & - R_{3-2}(0-1)_{01} S_{5-6}(10)_{10} \\ & + R_{2-3}(01)_{01} [3 R_{01}(-10)_{10} - S_{01}(-10)_{10}] & - R_{4-3}(0-1)_{01} S_{6-7}(10)_{10} \\ & + \dots & \\ & + \{3 S_{00}(00)_{00} - 12 R_{00}(00)_{00}\} R_{3-4}(01)_{01} & + 3 R_{00}(00)_{00} S_{3-4}(01)_{01} \\ & + \{\frac{3}{2} S_{1-1}(00)_{00} - 6 R_{1-1}(00)_{00}\} [R_{4-5}(01)_{01} + R_{2-3}(01)_{01}] & + \frac{3}{2} R_{1-1}(00)_{00} [S_{4-5}(01)_{01} + S_{2-3}(01)_{01}] \\ & + \{\frac{3}{2} S_{2-2}(00)_{00} - 6 R_{2-2}(00)_{00}\} [R_{5-6}(01)_{01} + R_{1-2}(01)_{01}] & + \frac{3}{2} R_{2-2}(00)_{00} [S_{5-6}(01)_{01} + S_{1-2}(01)_{01}] \\ & + \{\frac{3}{2} S_{3-3}(00)_{00} - 6 R_{3-3}(00)_{00}\} [R_{6-7}(01)_{01} + R_{01}(0-1)_{01}] & + \frac{3}{2} R_{3-3}(00)_{00} [S_{6-7}(01)_{01} + S_{01}(0-1)_{01}] \\ & + \dots & + \dots \end{aligned} $
$3-5\mu+\varsigma+\mu\varsigma'$	$\eta\eta'$	$ T_{3-5}(11)_{11} = S_{3-5}(11)_{11} - 2 R_{3-5}(11)_{11} + 3 R_{4-5}(01)_{01} - S_{4-5}(01)_{01} $
$4-6\mu+\varsigma+\mu\varsigma'$	$\eta\eta'$	$ T_{4-6}(11)_{11} = S_{4-6}(11)_{11} - 2 R_{4-6}(11)_{11} + 3 R_{5-6}(01)_{01} - S_{5-6}(01)_{01} $ u. s. w.
$1-\mu-\varsigma+\mu\varsigma'$	$\eta\eta'$	$ T_{1-1}(-11)_{11} = S_{1-1}(-11)_{11} - 2 R_{1-1}(-11)_{11} + 3 R_{01}(0-1)_{01} - S_{01}(0-1)_{01} $
$2-2\mu-\varsigma+\mu\varsigma'$	$\eta\eta'$	$ T_{2-2}(-11)_{11} = S_{2-2}(-11)_{11} - 2 R_{2-2}(-11)_{11} + 3 R_{1-2}(01)_{01} - S_{1-2}(01)_{01} $
$3-3\mu-\varsigma+\mu\varsigma'$	$\eta\eta'$	$ T_{3-3}(-11)_{11} = S_{3-3}(-11)_{11} - 2 R_{3-3}(-11)_{11} + 3 R_{2-3}(01)_{01} - S_{2-3}(01)_{01} $
$4-4\mu-\varsigma+\mu\varsigma'$	$\eta\eta'$	$ T_{4-4}(-11)_{11} = S_{4-4}(-11)_{11} - 2 R_{4-4}(-11)_{11} + 3 R_{3-4}(01)_{01} - S_{3-4}(01)_{01} $ u. s. w.

Argument	Exc.	Coefficient
$s-\mu s'$	$\eta\eta'$	$T_{00}(1-1)_{11} = -2 R_{00}(1-1)_{11} - S_{10}(0-1)_{01}$ $+ \{6 R_{00}(00)_{00} - 2 S_{00}(00)_{00}\} R_{00}(1-1)_{11}$ $+ \{3 R_{1-1}(00)_{00} - S_{1-1}(00)_{00}\} [R_{1-1}(1-1)_{11} + R_{1-1}(-11)_{11}] - R_{1-1}(00)_{00} [S_{1-1}(1-1)_{11} + S_{1-1}(-11)_{11}]$ $+ \{3 R_{2-2}(00)_{00} - S_{2-2}(00)_{00}\} [R_{2-2}(1-1)_{11} + R_{2-2}(-11)_{11}] - R_{2-2}(00)_{00} [S_{2-2}(1-1)_{11} + S_{2-2}(-11)_{11}]$ $+ \{3 R_{3-3}(00)_{00} - S_{3-3}(00)_{00}\} [R_{3-3}(1-1)_{11} + R_{3-3}(-11)_{11}] - R_{3-3}(00)_{00} [S_{3-3}(1-1)_{11} + S_{3-3}(-11)_{11}]$ $+$ $+ \{3 R_{2-1}(-10)_{10} - S_{2-1}(-10)_{10}\} R_{2-1}(0-1)_{01} - R_{2-1}(-10)_{10} S_{2-1}(0-1)_{01}$ $+ \{3 R_{3-2}(-10)_{10} - S_{3-2}(-10)_{10}\} R_{3-2}(0-1)_{01} - R_{3-2}(-10)_{10} S_{3-2}(0-1)_{01}$ $+ \{3 R_{4-3}(-10)_{10} - S_{4-3}(-10)_{10}\} R_{4-3}(0-1)_{01} - R_{4-3}(-10)_{10} S_{4-3}(0-1)_{01}$ $+$ $+ \{3 R_{01}(-10)_{10} - S_{01}(-10)_{10}\} R_{01}(0-1)_{01} - R_{01}(-10)_{10} S_{01}(0-1)_{01}$ $+ \{3 R_{1-2}(10)_{10} - S_{1-2}(10)_{10}\} R_{1-2}(01)_{01} - R_{1-2}(10)_{10} S_{1-2}(01)_{01}$ $+ \{3 R_{2-3}(10)_{10} - S_{2-3}(10)_{10}\} R_{2-3}(01)_{01} - R_{2-3}(10)_{10} S_{2-3}(01)_{01}$ $+$ $+ \{\frac{3}{2} S_{1-1}(00)_{00} - 6 R_{1-1}(00)_{00}\} [R_{01}(0-1)_{01} + R_{2-1}(0-1)_{01}] + 3 R_{00}(00)_{00} S_{10}(0-1)_{01}$ $+ \{\frac{3}{2} S_{2-2}(00)_{00} - 6 R_{2-2}(00)_{00}\} [R_{1-2}(01)_{01} + R_{3-2}(0-1)_{01}] + \frac{3}{2} R_{1-1}(00)_{00} [S_{01}(0-1)_{01} + S_{2-1}(0-1)_{01}]$ $+ \{\frac{3}{2} S_{3-3}(00)_{00} - 6 R_{3-3}(00)_{00}\} [R_{2-3}(01)_{01} + R_{4-3}(0-1)_{01}] + \frac{3}{2} R_{2-2}(00)_{00} [S_{1-2}(01)_{01} + S_{3-2}(0-1)_{01}]$ $+ \{\frac{3}{2} S_{4-4}(00)_{00} - 6 R_{4-4}(00)_{00}\} [R_{3-4}(01)_{01} + R_{5-4}(0-1)_{01}] + \frac{3}{2} R_{3-3}(00)_{00} [S_{2-3}(01)_{01} + S_{4-3}(0-1)_{01}]$ $+$
$1-\mu+s-\mu s'$	$\eta\eta'$	$T_{1-1}(1-1)_{11} = S_{1-1}(1-1)_{11} - 2 R_{1-1}(1-1)_{11} + 3 R_{2-1}(0-1)_{01} - S_{2-1}(0-1)_{01}$
$2-2\mu+s-\mu s'$	$\eta\eta'$	$T_{2-2}(1-1)_{11} = S_{2-2}(1-1)_{11} - 2 R_{2-2}(1-1)_{11} + 3 R_{3-2}(0-1)_{01} - S_{3-2}(0-1)_{01}$
$3-3\mu+s-\mu s'$	$\eta\eta'$	$T_{3-3}(1-1)_{11} = S_{3-3}(1-1)_{11} - 2 R_{3-3}(1-1)_{11} + 3 R_{4-3}(0-1)_{01} - S_{4-3}(0-1)_{01}$
$4-4\mu+s-\mu s'$	$\eta\eta'$	$T_{4-4}(1-1)_{11} = S_{4-4}(1-1)_{11} - 2 R_{4-4}(1-1)_{11} + 3 R_{5-4}(0-1)_{01} - S_{5-4}(0-1)_{01}$
		u. s. w.
—	η'^2	$T_{00}(00)_{02} = -2 R_{00}(00)_{02}$ $+ 6 R_{00}(00)_{00} R_{00}(00)_{02} - 2 R_{00}(00)_{02} S_{00}(00)_{00}$ $+ R_{1-1}(00)_{00} [3 R_{1-1}(00)_{02} - S_{1-1}(00)_{02}] - R_{1-1}(00)_{02} S_{1-1}(00)_{00}$ $+ R_{2-2}(00)_{00} [3 R_{2-2}(00)_{02} - S_{2-2}(00)_{02}] - R_{2-2}(00)_{02} S_{2-2}(00)_{00}$ $+ R_{3-3}(00)_{00} [3 R_{3-3}(00)_{02} - S_{3-3}(00)_{02}] - R_{3-3}(00)_{02} S_{3-3}(00)_{00}$ $+$ $+ \frac{3}{2} R_{2-1}(0-1)_{01}^2 + \frac{3}{2} R_{01}(0-1)_{01}^2 - R_{2-1}(0-1)_{01} S_{2-1}(0-1)_{01} - R_{01}(0-1)_{01} S_{01}(0-1)_{01}$ $+ \frac{3}{2} R_{3-2}(0-1)_{01}^2 + \frac{3}{2} R_{1-2}(01)_{01}^2 - R_{3-2}(0-1)_{01} S_{3-2}(0-1)_{01} - R_{1-2}(01)_{01} S_{1-2}(01)_{01}$ $+ \frac{3}{2} R_{4-3}(0-1)_{01}^2 + \frac{3}{2} R_{2-3}(01)_{01}^2 - R_{4-3}(0-1)_{01} S_{4-3}(0-1)_{01} - R_{2-3}(01)_{01} S_{2-3}(01)_{01}$ $+ \dots + \dots - \dots - \dots$
$1-\mu$	η'^2	$T_{1-1}(00)_{02} = S_{1-1}(00)_{02} - 2 R_{1-1}(00)_{02}$
$2-2\mu$	η'^2	$T_{2-2}(00)_{02} = S_{2-2}(00)_{02} - 2 R_{2-2}(00)_{02}$
$3-3\mu$	η'^2	$T_{3-3}(00)_{02} = S_{3-3}(00)_{02} - 2 R_{3-3}(00)_{02}$
		u. s. w.

Argument	Exc.	Coefficient
$2\mu - 2\mu s'$	$r_i'^2$	$T_{02}(0-2)_{02} = S_{02}(0-2)_{02} - 2 R_{02}(0-2)_{02}$
$1 + \mu - 2\mu s'$	η'^2	$T_{11}(0-2)_{02} = S_{11}(0-2)_{02} - 2 R_{11}(0-2)_{02}$
$2 - 2\mu s'$	η'^2	$T_{20}(0-2)_{02} = S_{20}(0-2)_{02} - 2 R_{20}(0-2)_{02}$
$3 - \mu - 2\mu s'$	η'^2	$T_{3-1}(0-2)_{02} = S_{3-1}(0-2)_{02} - 2 R_{3-1}(0-2)_{02}$
$4 - 2\mu - 2\mu s'$	$r_i'^2$	$T_{4-2}(0-2)_{02} = S_{4-2}(0-2)_{02} - 2 R_{4-2}(0-2)_{02}$ u. s. w.
$1 - 3\mu + 2\mu s'$	η'^2	$T_{1-3}(02)_{02} = S_{1-3}(02)_{02} - 2 R_{1-3}(02)_{02}$ $+ \{6 R_{00}(00)_{00} - 2 S_{00}(00)_{00}\} R_{1-3}(02)_{02} - 2 R_{00}(00)_{00} S_{1-3}(02)_{02}$ $+ \{3 R_{1-1}(00)_{00} - S_{1-1}(00)_{00}\} [R_{2-4}(02)_{02} + R_{02}(0-2)_{02}] - R_{1-1}(00)_{00} [S_{2-4}(02)_{02} + S_{02}(0-2)_{02}]$ $+ \{3 R_{2-2}(00)_{00} - S_{2-2}(00)_{00}\} [R_{3-5}(02)_{02} + R_{11}(0-2)_{02}] - R_{2-2}(00)_{00} [S_{3-5}(02)_{02} + S_{11}(0-2)_{02}]$ $+ \{3 R_{3-3}(00)_{00} - S_{3-3}(00)_{00}\} [R_{4-6}(02)_{02} + R_{20}(0-2)_{02}] - R_{3-3}(00)_{00} [S_{4-6}(02)_{02} + S_{20}(0-2)_{02}]$ $+ \dots$ $- R_{01}(0-1)_{01} S_{1-2}(01)_{01}$ $+ R_{1-2}(01)_{01} [3 R_{01}(0-1)_{01} - S_{01}(0-1)_{01}] - R_{2-1}(0-1)_{01} S_{3-4}(01)_{01}$ $- R_{2-3}(01)_{01} S_{10}(0-1)_{01} - R_{3-2}(0-1)_{01} S_{4-5}(01)_{01}$ $+ R_{3-4}(01)_{01} [3 R_{2-1}(0-1)_{01} - S_{2-1}(0-1)_{01}] - R_{4-3}(0-1)_{01} S_{5-6}(01)_{01}$ $+ R_{4-5}(01)_{01} [3 R_{3-2}(0-1)_{01} - S_{3-2}(0-1)_{01}] - \dots$
$2 - 4\mu + 2\mu s'$	η'^2	$T_{2-4}(02)_{02} = S_{2-4}(02)_{02} - 2 R_{2-4}(02)_{02}$ $+ \{6 R_{00}(00)_{00} - 2 S_{00}(00)_{00}\} R_{2-4}(02)_{02} - 2 R_{00}(00)_{00} S_{2-4}(02)_{02}$ $+ \{3 R_{1-1}(00)_{00} - S_{1-1}(00)_{00}\} [R_{3-5}(02)_{02} + R_{1-3}(02)_{02}] - R_{1-1}(00)_{00} [S_{3-5}(02)_{02} + S_{1-3}(02)_{02}]$ $+ \{3 R_{2-2}(00)_{00} - S_{2-2}(00)_{00}\} [R_{4-6}(02)_{02} + R_{02}(0-2)_{02}] - R_{2-2}(00)_{00} [S_{4-6}(02)_{02} + S_{02}(0-2)_{02}]$ $+ \dots$ $- R_{01}(0-1) S_{2-3}(01)_{01}$ $+ R_{1-2}(01)_{01} [3 R_{1-2}(01)_{01} - S_{1-2}(01)_{01}]$ $+ R_{2-3}(01)_{01} [3 R_{01}(0-1)_{01} - S_{01}(0-1)_{01}] - R_{2-1}(0-1)_{01} S_{4-5}(01)_{01}$ $- R_{3-4}(01)_{01} S_{10}(0-1)_{01} - R_{3-2}(0-1)_{01} S_{5-6}(01)_{01}$ $+ R_{4-5}(01)_{01} [3 R_{2-1}(0-1)_{01} - S_{2-1}(0-1)_{01}] - R_{4-3}(0-1)_{01} S_{6-7}(01)_{01}$
$3 - 5\mu + 2\mu s'$	η'^2	$T_{3-5}(02)_{02} = S_{3-5}(02)_{02} - 2 R_{3-5}(02)_{02}$
$4 - 6\mu + 2\mu s'$	η'^2	$T_{4-6}(02)_{02} = S_{4-6}(02)_{02} - 2 R_{4-6}(02)_{02}$ u. s. w.
$1 - s$	η^3	$T_{10}(-10)_{30} = S_{10}(-10)_{30} + 3 R_{20}(-20)_{20} - S_{20}(-20)_{20} + 6 R_{00}(00)_{20} + \frac{3}{4} S_{10}(-10)_{10}$
$1 - 2s + \mu s'$	$\eta^2 \eta'$	$T_{10}(-21)_{21} = S_{10}(-21)_{21} + 3 R_{00}(1-1)_{11} + \frac{3}{4} S_{10}(0-1)_{01}$
$1 - \mu s'$	$\eta^2 \eta'$	$T_{10}(0-1)_{21} = S_{10}(0-1)_{21} + 3 R_{20}(-1-1)_{11} - S_{20}(-1-1)_{11} + 3 R_{00}(1-1)_{11}$
$1 + s - 2\mu s'$	$\eta \eta'^2$	$T_{10}(1-2)_{12} = S_{10}(1-2)_{12} + 3 R_{20}(0-2)_{02} - S_{20}(0-2)_{02}$
$1 - s$	$\eta \eta'^2$	$T_{10}(-10)_{12} = S_{10}(-10)_{12} + 6 R_{00}(00)_{02}$
$1 - \mu s'$	η'^3	$T_{10}(0-1)_{03} = S_{10}(0-1)_{03}$

Formeln für die Entwicklungskoeffizienten $\delta Q_{\nu\nu'}(nn')_{ss'}$.

Argument	Exc.	Coefficient
$2-2\mu$	—	$\delta Q_{2-2}(00)_{00} = +\frac{1}{2}S_{1-1}(00)_{00} \mu [T_{1-1}(00)_{00} - T_{3-3}(00)_{00}]$ $+ \frac{1}{2}S_{2-2}(00)_{00} 2\mu [2T_{00}(00)_{00} - T_{4-4}(00)_{00}]$ $+ \frac{1}{2}S_{3-3}(00)_{00} 3\mu [T_{1-1}(00)_{00} - T_{5-5}(00)_{00}]$ $+ \frac{1}{2}S_{4-4}(00)_{00} 4\mu [T_{2-2}(00)_{00} - T_{6-6}(00)_{00}]$ $+$
$1-s$	η	$\delta Q_{10}(-10)_{10} = +\frac{1}{2}S_{1-1}(00)_{00} \mu [T_{01}(-10)_{10} - T_{2-1}(-10)_{10}] + \frac{1}{2}T_{1-1}(00)_{00} \mu [S_{2-1}(-10)_{10} - S_{01}(-10)_{10}]$ $+ \frac{1}{2}S_{2-2}(00)_{00} 2\mu [T_{1-2}(10)_{10} - T_{3-2}(-10)_{10}] + \frac{1}{2}T_{2-2}(00)_{00} 2\mu [S_{3-2}(-10)_{10} - S_{1-2}(10)_{10}]$ $+ \frac{1}{2}S_{3-3}(00)_{00} 3\mu [T_{2-3}(10)_{10} - T_{4-3}(-10)_{10}] + \frac{1}{2}T_{3-3}(00)_{00} 3\mu [S_{4-3}(-10)_{10} - S_{2-3}(10)_{10}]$ $+ \frac{1}{2}S_{4-4}(00)_{00} 4\mu [T_{3-4}(10)_{10} - T_{5-4}(-10)_{10}] + \frac{1}{2}T_{4-4}(00)_{00} 4\mu [S_{5-4}(-10)_{10} - S_{3-4}(10)_{10}]$ $+$
$1-2\mu+s$	η	$\delta Q_{1-2}(10)_{10} = +\frac{1}{2}S_{1-1}(00)_{00} \mu [T_{01}(-10)_{10} - T_{2-3}(10)_{10}] + \frac{1}{2}T_{1-1}(00)_{00} [S_{2-3}(10)_{10} 3\mu + S_{01}(-10)_{10} \mu]$ $+ \frac{1}{2}S_{2-2}(00)_{00} 2\mu [T_{10}(-10)_{10} - T_{3-4}(10)_{10}] + \frac{1}{2}T_{2-2}(00)_{00} S_{3-4}(10)_{10} 4\mu$ $+ \frac{1}{2}S_{3-3}(00)_{00} 3\mu [T_{2-1}(-10)_{10} - T_{4-5}(10)_{10}] + \frac{1}{2}T_{3-3}(00)_{00} [S_{4-5}(10)_{10} 5\mu - S_{2-1}(-10)_{10} \mu]$ $+ \frac{1}{2}S_{4-4}(00)_{00} 4\mu [T_{3-2}(-10)_{10} - T_{5-6}(10)_{10}] + \frac{1}{2}T_{4-4}(00)_{00} [S_{5-6}(10)_{10} 6\mu - S_{3-2}(-10)_{10} 2\mu]$ $+$
$2-3\mu+s$	η	$\delta Q_{2-3}(10)_{10} = +\frac{1}{2}S_{1-1}(00)_{00} \mu [T_{1-2}(10)_{10} - T_{3-4}(10)_{10}] + \frac{1}{2}T_{1-1}(00)_{00} [S_{3-4}(10)_{10} 4\mu + S_{1-2}(10)_{10} 2\mu]$ $+ \frac{1}{2}S_{2-2}(00)_{00} 2\mu [T_{01}(-10)_{10} - T_{4-5}(10)_{10}] + \frac{1}{2}T_{2-2}(00)_{00} [S_{4-5}(10)_{10} 5\mu + S_{01}(-10)_{10} \mu]$ $+ \frac{1}{2}S_{3-3}(00)_{00} 3\mu [T_{10}(-10)_{10} - T_{5-6}(10)_{10}] + \frac{1}{2}T_{3-3}(00)_{00} S_{5-6}(10)_{10} 6\mu$ $+ \frac{1}{2}S_{4-4}(00)_{00} 4\mu [T_{2-1}(-10)_{10} - T_{6-7}(10)_{10}] + \frac{1}{2}T_{4-4}(00)_{00} [S_{6-7}(10)_{10} 7\mu - S_{2-1}(-10)_{10} \mu]$ $+$ $+ \frac{1}{2}T_{5-5}(00)_{00} [S_{7-8}(10)_{10} 8\mu - S_{3-2}(-10)_{10} 2\mu]$ $+$
$1-\mu s'$	η'	$\delta Q_{10}(0-1)_{01} = +\frac{1}{2}S_{1-1}(00)_{00} \mu [T_{01}(0-1)_{01} - T_{2-1}(0-1)_{01}] + \frac{1}{2}T_{1-1}(00)_{00} \mu [S_{2-1}(0-1)_{01} - S_{01}(0-1)_{01}]$ $+ \frac{1}{2}S_{2-2}(00)_{00} 2\mu [T_{1-2}(01)_{01} - T_{3-2}(0-1)_{01}] + \frac{1}{2}T_{2-2}(00)_{00} 2\mu [S_{3-2}(0-1)_{01} - S_{1-2}(01)_{01}]$ $+ \frac{1}{2}S_{3-3}(00)_{00} 3\mu [T_{2-3}(01)_{01} - T_{4-3}(0-1)_{01}] + \frac{1}{2}T_{3-3}(00)_{00} 3\mu [S_{4-3}(0-1)_{01} - S_{2-3}(01)_{01}]$ $+$
$1-2\mu+\mu s'$	η'	$\delta Q_{1-2}(01)_{01} = +\frac{1}{2}S_{1-1}(00)_{00} \mu [T_{01}(0-1)_{01} - T_{2-3}(01)_{01}] + \frac{1}{2}T_{1-1}(00)_{00} [S_{2-3}(01)_{01} 3\mu + S_{01}(0-1)_{01} \mu]$ $+ \frac{1}{2}S_{2-2}(00)_{00} 2\mu [T_{10}(0-1)_{01} - T_{3-4}(01)_{01}] + \frac{1}{2}T_{2-2}(00)_{00} S_{3-4}(01)_{01} 4\mu$ $+ \frac{1}{2}S_{3-3}(00)_{00} 3\mu [T_{2-1}(0-1)_{01} - T_{4-5}(01)_{01}] + \frac{1}{2}T_{3-3}(00)_{00} [S_{4-5}(01)_{01} 5\mu - S_{2-1}(0-1)_{01} \mu]$ $+ \frac{1}{2}S_{4-4}(00)_{00} 4\mu [T_{3-2}(0-1)_{01} - T_{5-6}(01)_{01}] + \frac{1}{2}T_{4-4}(00)_{00} [S_{5-6}(01)_{01} 6\mu - S_{3-2}(0-1)_{01} 2\mu]$ $+$
$2-3\mu+\mu s'$	η'	$\delta Q_{2-3}(01)_{01} = +\frac{1}{2}S_{1-1}(00)_{00} \mu [T_{1-2}(01)_{01} - T_{3-4}(01)_{01}] + \frac{1}{2}T_{1-1}(00)_{00} [S_{3-4}(01)_{01} 4\mu + S_{1-2}(01)_{01} 2\mu]$ $+ \frac{1}{2}S_{2-2}(00)_{00} 2\mu [T_{01}(0-1)_{01} - T_{4-5}(01)_{01}] + \frac{1}{2}T_{2-2}(00)_{00} [S_{4-5}(01)_{01} 5\mu + S_{01}(0-1)_{01} \mu]$ $+ \frac{1}{2}S_{3-3}(00)_{00} 3\mu [T_{10}(0-1)_{01} - T_{5-6}(01)_{01}] + \frac{1}{2}T_{3-3}(00)_{00} S_{5-6}(01)_{01} 6\mu$ $+ \frac{1}{2}S_{4-4}(00)_{00} 4\mu [T_{2-1}(0-1)_{01} - T_{6-7}(01)_{01}] + \frac{1}{2}T_{4-4}(00)_{00} [S_{6-7}(01)_{01} 7\mu - S_{2-1}(0-1)_{01} \mu]$ $+$

Argument	Exc.	Coefficient
$2-2\mu$	η^2	$\delta Q_{2-2}(00)_{20} = +\frac{1}{2} S_{1-1}(00)_{20} \mu [T_{1-1}(00)_{00} - T_{3-3}(00)_{00}] + \frac{1}{2} S_{1-1}(00)_{00} \mu [T_{1-1}(00)_{20} - T_{3-3}(00)_{20}]$ $+ \frac{1}{2} S_{2-2}(00)_{20} 2\mu [2T_{00}(00)_{00} - T_{4-4}(00)_{00}] + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [2T_{00}(00)_{20} - T_{4-4}(00)_{20}]$ $+ \frac{1}{2} S_{3-3}(00)_{20} 3\mu [T_{1-1}(00)_{00} - T_{5-5}(00)_{00}] + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{1-1}(00)_{20} - T_{5-5}(00)_{20}]$ $+ \frac{1}{2} S_{4-4}(00)_{20} 4\mu [T_{2-2}(00)_{00} - T_{6-6}(00)_{00}] + \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{2-2}(00)_{20} - T_{6-6}(00)_{20}]$ $+ \frac{1}{2} S_{2-1}(-10)_{10} \mu [T_{01}(-10)_{10} - T_{4-3}(-10)_{10}] + \frac{1}{2} S_{01}(-10)_{10} \mu [T_{2-1}(-10)_{10} - T_{2-3}(10)_{10}]$ $+ \frac{1}{2} S_{3-2}(-10)_{10} 2\mu [T_{10}(-10)_{10} - T_{5-4}(-10)_{10}] + \frac{1}{2} S_{1-2}(10)_{10} 2\mu [T_{10}(-10)_{10} - T_{3-4}(10)_{10}]$ $+ \frac{1}{2} S_{4-3}(-10)_{10} 3\mu [T_{2-1}(-10)_{10} - T_{6-5}(-10)_{10}] + \frac{1}{2} S_{2-3}(10)_{10} 3\mu [T_{01}(-10)_{10} - T_{4-5}(10)_{10}]$
$2\mu-2s$	η^2	$\delta Q_{02}(-20)_{20} = +\frac{1}{2} S_{1-1}(00)_{00} \mu [T_{1-3}(20)_{20} - T_{11}(-20)_{20}] - \frac{1}{2} T_{1-1}(00)_{00} [S_{11}(-20)_{20} \mu + S_{1-3}(20)_{20} 3\mu]$ $+ \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{2-4}(20)_{20} - T_{20}(-20)_{20}] - \frac{1}{2} T_{2-2}(00)_{00} S_{2-4}(20)_{20} 4\mu$ $+ \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{3-5}(20)_{20} - T_{3-1}(-20)_{20}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{3-1}(-20)_{20} \mu - S_{3-5}(20)_{20} 5\mu]$ $+ \frac{1}{2} S_{2-1}(-10)_{10} \mu T_{2-3}(10)_{10} - \frac{1}{2} S_{01}(-10)_{10} \mu T_{01}(-10)_{10}$ $+ \frac{1}{2} S_{3-2}(-10)_{10} 2\mu T_{3-4}(10)_{10} - \frac{1}{2} S_{1-2}(10)_{10} 2\mu T_{10}(-10)_{10}$ $+ \frac{1}{2} S_{4-3}(-10)_{10} 3\mu T_{4-5}(10)_{10} - \frac{1}{2} S_{2-3}(10)_{10} 3\mu T_{2-1}(-10)_{10}$ $+ \frac{1}{2} S_{5-4}(-10)_{10} 4\mu T_{5-6}(10)_{10} - \frac{1}{2} S_{3-4}(10)_{10} 4\mu T_{3-2}(-10)_{10}$
$1-3\mu+2s$	η^2	$\delta Q_{1-3}(20)_{20} = +\frac{1}{2} S_{1-1}(00)_{00} \mu [T_{02}(-20)_{20} - T_{2-4}(20)_{20}] + \frac{1}{2} T_{1-1}(00)_{00} [S_{2-4}(20)_{20} 4\mu + S_{02}(-20)_{20} 2\mu]$ $+ \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{11}(-20)_{20} - T_{3-5}(20)_{20}] + \frac{1}{2} T_{2-2}(00)_{00} [S_{3-5}(20)_{20} 5\mu + S_{11}(-20)_{20} \mu]$ $+ \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{20}(-20)_{20} - T_{4-6}(20)_{20}] + \frac{1}{2} T_{3-3}(00)_{00} S_{4-6}(20)_{20} 6\mu$ $+ \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{3-1}(-20)_{20} - T_{5-7}(20)_{20}] + \frac{1}{2} T_{4-4}(00)_{00} [S_{5-7}(20)_{20} 7\mu - S_{3-1}(-20)_{20} \mu]$ $- \frac{1}{2} S_{2-1}(-10)_{10} \mu T_{3-4}(10)_{10} + \frac{1}{2} S_{01}(-10)_{10} \mu T_{1-2}(10)_{10}$ $- \frac{1}{2} S_{3-2}(-10)_{10} 2\mu T_{4-5}(10)_{10} + \frac{1}{2} S_{1-2}(10)_{10} 2\mu T_{01}(-10)_{10}$ $- \frac{1}{2} S_{4-3}(-10)_{10} 3\mu T_{5-6}(10)_{10} + \frac{1}{2} S_{2-3}(10)_{10} 3\mu T_{10}(-10)_{10}$ $- \frac{1}{2} S_{5-4}(-10)_{10} 4\mu T_{6-7}(10)_{10} + \frac{1}{2} S_{3-4}(10)_{10} 4\mu T_{2-1}(-10)_{10}$
$2-4\mu+2s$	η^2	$\delta Q_{2-4}(20)_{20} = +\frac{1}{2} S_{1-1}(00)_{00} \mu [T_{1-3}(20)_{20} - T_{3-5}(20)_{20}] + \frac{1}{2} T_{1-1}(00)_{00} [S_{3-5}(20)_{20} 5\mu + S_{1-3}(20)_{20} 3\mu]$ $+ \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{02}(-20)_{20} - T_{4-6}(20)_{20}] + \frac{1}{2} T_{2-2}(00)_{00} [S_{4-6}(20)_{20} 6\mu + S_{02}(-20)_{20} 2\mu]$ $+ \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{11}(-20)_{20} - T_{5-7}(20)_{20}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{5-7}(20)_{20} 7\mu + S_{11}(-20)_{20} \mu]$ $- \frac{1}{2} S_{2-1}(-10)_{10} \mu T_{4-5}(10)_{10} + \frac{1}{2} S_{01}(-10)_{10} \mu T_{2-3}(10)_{10}$ $- \frac{1}{2} S_{3-2}(-10)_{10} 2\mu T_{5-6}(10)_{10} + \frac{1}{2} S_{1-2}(10)_{10} 2\mu T_{1-2}(10)_{10}$ $- \frac{1}{2} S_{4-3}(-10)_{10} 3\mu T_{6-7}(10)_{10} + \frac{1}{2} S_{2-3}(10)_{10} 3\mu T_{01}(-10)_{10}$
$2\mu-s-7\mu s'$	$\eta \eta'$	$\delta Q_{02}(-1-1)_{11} = +\frac{1}{2} S_{1-1}(00)_{00} \mu [T_{1-3}(11)_{11} - T_{11}(-1-1)_{11}] - \frac{1}{2} T_{1-1}(00)_{00} [S_{11}(-1-1)_{11} \mu + S_{1-3}(11)_{11} 3\mu]$ $+ \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{2-4}(11)_{11} - T_{20}(-1-1)_{11}] - \frac{1}{2} T_{2-2}(00)_{00} S_{2-4}(11)_{11} 4\mu$ $+ \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{3-5}(11)_{11} - T_{3-1}(-1-1)_{11}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{3-1}(-1-1)_{11} \mu - S_{3-5}(11)_{11} 5\mu]$ $+ \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{4-6}(11)_{11} - T_{4-2}(-1-1)_{11}] + \frac{1}{2} T_{4-4}(00)_{00} [S_{4-2}(-1-1)_{11} 2\mu - S_{4-6}(11)_{11} 6\mu]$

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{1}{2} S_{2-1}(-10)_{10} \mu T_{2-3}(01)_{01} - \frac{1}{2} S_{01}(-10)_{10} \mu T_{01}(0-1)_{01} \\ & + \frac{1}{2} S_{3-2}(-10)_{10} 2 \mu T_{3-4}(01)_{01} - \frac{1}{2} S_{1-2}(10)_{10} 2 \mu T_{10}(0-1)_{01} \\ & + \frac{1}{2} S_{4-3}(-10)_{10} 3 \mu T_{4-5}(01)_{01} - \frac{1}{2} S_{2-3}(10)_{10} 3 \mu T_{2-1}(0-1)_{01} \\ & + \dots \\ & + \frac{1}{2} S_{2-1}(0-1)_{01} \mu T_{2-3}(10)_{10} - \frac{1}{2} S_{01}(0-1)_{01} \mu T_{01}(-10)_{10} \\ & + \frac{1}{2} S_{3-2}(0-1)_{01} 2 \mu T_{3-4}(10)_{10} - \frac{1}{2} S_{1-2}(01)_{01} 2 \mu T_{10}(-10)_{10} \\ & + \frac{1}{2} S_{4-3}(0-1)_{01} 3 \mu T_{4-5}(10)_{10} - \frac{1}{2} S_{2-3}(01)_{01} 3 \mu T_{2-1}(-10)_{10} \\ & + \dots \end{aligned} $
$1-3\mu+\varsigma+\mu\varsigma'$	$\eta\eta'$	$ \begin{aligned} \delta Q_{1-3}(11)_{11} = & + \frac{1}{2} S_{1-1}(00)_{00} \mu [T_{02}(-1-1)_{11} - T_{2-4}(11)_{11}] + \frac{1}{2} T_{1-1}(00)_{00} [S_{2-4}(11)_{11} 4\mu + S_{02}(-1-1)_{11} 2\mu] \\ & + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{11}(-1-1)_{11} - T_{3-5}(11)_{11}] + \frac{1}{2} T_{2-2}(00)_{00} [S_{3-5}(11)_{11} 5\mu + S_{11}(-1-1)_{11} \mu] \\ & + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{20}(-1-1)_{11} - T_{4-6}(11)_{11}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{4-6}(11)_{11} 6\mu \\ & + \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{3-1}(-1-1)_{11} - T_{5-7}(11)_{11}] + \frac{1}{2} T_{4-4}(00)_{00} [S_{5-7}(11)_{11} 7\mu - S_{3-1}(-1-1)_{11} \mu] \\ & + \dots \end{aligned} $
		$ \begin{aligned} & - \frac{1}{2} S_{2-1}(-10)_{10} \mu T_{3-4}(01)_{01} + \frac{1}{2} S_{01}(-10)_{10} \mu T_{1-2}(01)_{01} \\ & - \frac{1}{2} S_{3-2}(-10)_{10} 2 \mu T_{4-5}(01)_{01} + \frac{1}{2} S_{1-2}(10)_{10} 2 \mu T_{01}(0-1)_{01} \\ & - \frac{1}{2} S_{4-3}(-10)_{10} 3 \mu T_{5-6}(01)_{01} + \frac{1}{2} S_{2-3}(10)_{10} 3 \mu T_{10}(0-1)_{01} \\ & - \frac{1}{2} S_{5-4}(-10)_{10} 4 \mu T_{6-7}(01)_{01} + \frac{1}{2} S_{3-4}(10)_{10} 4 \mu T_{2-1}(0-1)_{01} \\ & - \dots \\ & - \frac{1}{2} S_{2-1}(0-1)_{01} \mu T_{3-4}(10)_{10} + \frac{1}{2} S_{01}(0-1)_{01} \mu T_{1-2}(10)_{10} \\ & - \frac{1}{2} S_{3-2}(0-1)_{01} 2 \mu T_{4-5}(10)_{10} + \frac{1}{2} S_{1-2}(01)_{01} 2 \mu T_{01}(-10)_{10} \\ & - \frac{1}{2} S_{4-3}(0-1)_{01} 3 \mu T_{5-6}(10)_{10} + \frac{1}{2} S_{2-3}(01)_{01} 3 \mu T_{10}(-10)_{10} \\ & - \dots \\ & + \frac{1}{2} S_{3-4}(01)_{01} 4 \mu T_{2-1}(-10)_{10} \\ & + \dots \end{aligned} $
$2-4\mu+\varsigma+\mu\varsigma'$	$\eta\eta'$	$ \begin{aligned} \delta Q_{2-4}(11)_{11} = & + \frac{1}{2} S_{1-1}(00)_{00} \mu [T_{1-3}(11)_{11} - T_{3-5}(11)_{11}] + \frac{1}{2} T_{1-1}(00)_{00} [S_{3-5}(11)_{11} 5\mu + S_{1-3}(11)_{11} 3\mu] \\ & + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{02}(-1-1)_{11} - T_{4-6}(11)_{11}] + \frac{1}{2} T_{2-2}(00)_{00} [S_{4-6}(11)_{11} 6\mu + S_{02}(-1-1)_{11} 2\mu] \\ & + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{11}(-1-1)_{11} - T_{5-7}(11)_{11}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{5-7}(11)_{11} 7\mu + S_{11}(-1-1)_{11} \mu] \\ & + \dots \end{aligned} $
		$ \begin{aligned} & - \frac{1}{2} S_{2-1}(-10)_{10} \mu T_{4-5}(01)_{01} + \frac{1}{2} S_{01}(-10)_{10} \mu T_{2-3}(01)_{01} \\ & - \frac{1}{2} S_{3-2}(-10)_{10} 2 \mu T_{5-6}(01)_{01} + \frac{1}{2} S_{1-2}(10)_{10} 2 \mu T_{1-2}(01)_{01} \\ & - \frac{1}{2} S_{4-3}(-10)_{10} 3 \mu T_{6-7}(01)_{01} + \frac{1}{2} S_{2-3}(10)_{10} 3 \mu T_{01}(0-1)_{01} \\ & - \dots \\ & - \frac{1}{2} S_{2-1}(0-1)_{01} \mu T_{4-5}(10)_{10} + \frac{1}{2} S_{01}(0-1)_{01} \mu T_{2-3}(10)_{10} \\ & - \frac{1}{2} S_{3-2}(0-1)_{01} 2 \mu T_{5-6}(10)_{10} + \frac{1}{2} S_{1-2}(01)_{01} 2 \mu T_{1-2}(10)_{10} \\ & - \frac{1}{2} S_{4-3}(0-1)_{01} 3 \mu T_{6-7}(10)_{10} + \frac{1}{2} S_{2-3}(01)_{01} 3 \mu T_{01}(-10)_{10} \\ & - \dots \\ & + \dots \end{aligned} $
$2-2\mu-\varsigma+\mu\varsigma'$	$\eta\eta'$	$ \begin{aligned} \delta Q_{2-2}(-11)_{11} = & + \frac{1}{2} S_{1-1}(00)_{00} \mu [T_{1-1}(-11)_{11} - T_{3-3}(-11)_{11}] + \frac{1}{2} T_{1-1}(00)_{00} [S_{3-3}(-11)_{11} 3\mu + S_{1-1}(-11)_{11} \mu] \\ & + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{00}(1-1)_{11} - T_{4-4}(-11)_{11}] + \frac{1}{2} T_{2-2}(00)_{00} [S_{4-4}(-11)_{11} 4\mu \\ & + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{1-1}(1-1)_{11} - T_{5-5}(-11)_{11}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{5-5}(-11)_{11} 5\mu - S_{1-1}(1-1)_{11} \mu] \\ & + \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{2-2}(1-1)_{11} - T_{6-6}(-11)_{11}] + \frac{1}{2} T_{4-4}(00)_{00} [S_{6-6}(-11)_{11} 6\mu - S_{2-2}(1-1)_{11} 2\mu] \\ & + \dots \end{aligned} $

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{1}{2} S_{2-1}(-10)_{10} \quad \mu T_{01}(0-1)_{01} \quad - \frac{1}{2} S_{01}(-10)_{10} \quad \mu T_{2-3}(01)_{01} \\ & + \frac{1}{2} S_{3-2}(-10)_{10} \quad 2 \mu T_{10}(0-1)_{01} \quad - \frac{1}{2} S_{1-2}(10)_{10} \quad 2 \mu T_{3-4}(01)_{01} \\ & + \frac{1}{2} S_{4-3}(-10)_{10} \quad 3 \mu T_{2-1}(0-1)_{01} \quad - \frac{1}{2} S_{2-3}(10)_{10} \quad 3 \mu T_{4-5}(01)_{01} \\ & + \\ & - \frac{1}{2} S_{2-1}(0-1)_{01} \quad \mu T_{4-5}(-10)_{10} \quad + \frac{1}{2} S_{01}(0-1)_{01} \quad \mu T_{2-1}(-10)_{10} \\ & - \frac{1}{2} S_{3-2}(0-1)_{01} \quad 2 \mu T_{5-4}(-10)_{10} \quad + \frac{1}{2} S_{1-2}(01)_{01} \quad 2 \mu T_{10}(-10)_{10} \\ & - \frac{1}{2} S_{4-3}(0-1)_{01} \quad 3 \mu T_{6-5}(-10)_{10} \quad + \frac{1}{2} S_{2-3}(01)_{01} \quad 3 \mu T_{01}(-10)_{10} \\ & - \\ & \quad \quad \quad + \frac{1}{2} S_{3-4}(01)_{01} \quad 4 \mu T_{1-2}(10)_{10} \\ & + \end{aligned} $
$2-2\mu+s-\mu s'$	$\eta\eta'$	$ \begin{aligned} \delta Q_{2-2}(1-1)_{11} = & + \frac{1}{2} S_{1-1}(00)_{00} \quad \mu [T_{1-1}(1-1)_{11} - T_{3-3}(1-1)_{11}] + \frac{1}{2} T_{1-1}(00)_{00} [S_{3-3}(1-1)_{11} 3\mu + S_{1-1}(1-1)_{11} \mu] \\ & + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{00}(1-1)_{11} - T_{4-4}(1-1)_{11}] + \frac{1}{2} T_{2-2}(00)_{00} S_{4-4}(1-1)_{11} 4\mu \\ & + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{1-1}(1-1)_{11} - T_{5-5}(1-1)_{11}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{3-5}(1-1)_{11} 5\mu - S_{1-1}(-11)_{11} \mu] \\ & + \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{2-2}(1-1)_{11} - T_{6-6}(1-1)_{11}] + \frac{1}{2} T_{4-4}(00)_{00} [S_{6-6}(1-1)_{11} 6\mu - S_{2-2}(-11)_{11} 2\mu] \\ & + \quad \quad \quad + \\ & - \frac{1}{2} S_{2-1}(-10)_{10} \quad \mu T_{4-3}(0-1)_{01} \quad + \frac{1}{2} S_{01}(-10)_{10} \quad \mu T_{2-1}(0-1)_{01} \\ & - \frac{1}{2} S_{3-2}(-10)_{10} \quad 2 \mu T_{5-4}(0-1)_{01} \quad + \frac{1}{2} S_{1-2}(10)_{10} \quad 2 \mu T_{10}(0-1)_{01} \\ & - \frac{1}{2} S_{4-3}(-10)_{10} \quad 3 \mu T_{6-5}(0-1)_{01} \quad + \frac{1}{2} S_{2-3}(10)_{10} \quad 3 \mu T_{01}(0-1)_{01} \\ & - \frac{1}{2} S_{5-4}(-10)_{10} \quad 4 \mu T_{7-6}(0-1)_{01} \quad + \frac{1}{2} S_{3-4}(10)_{10} \quad 4 \mu T_{1-2}(01)_{01} \\ & - \\ & + \frac{1}{2} S_{2-1}(0-1)_{01} \quad \mu T_{01}(-10)_{10} \quad - \frac{1}{2} S_{01}(0-1)_{01} \quad \mu T_{2-3}(10)_{10} \\ & + \frac{1}{2} S_{3-2}(0-1)_{01} \quad 2 \mu T_{10}(-10)_{10} \quad - \frac{1}{2} S_{1-2}(01)_{01} \quad 2 \mu T_{3-4}(10)_{10} \\ & + \frac{1}{2} S_{4-3}(0-1)_{01} \quad 3 \mu T_{2-1}(-10)_{10} \quad - \frac{1}{2} S_{2-3}(01)_{01} \quad 3 \mu T_{4-5}(10)_{10} \\ & + \end{aligned} $
$s-\mu s'$	$\eta\eta'$	$ \begin{aligned} \delta Q_{00}(1-1)_{11} = & + \frac{1}{2} S_{1-1}(00)_{00} \quad \mu [T_{1-1}(-11)_{11} - T_{1-1}(1-1)_{11}] + \frac{1}{2} T_{1-1}(00)_{00} \quad \mu [S_{1-1}(1-1)_{11} - S_{1-1}(-11)_{11}] \\ & + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{2-2}(-11)_{11} - T_{2-2}(1-1)_{11}] + \frac{1}{2} T_{2-2}(00)_{00} 2\mu [S_{2-2}(1-1)_{11} - S_{2-2}(-11)_{11}] \\ & + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{3-3}(-11)_{11} - T_{3-3}(1-1)_{11}] + \frac{1}{2} T_{3-3}(00)_{00} 3\mu [S_{3-3}(1-1)_{11} - S_{3-3}(-11)_{11}] \\ & + \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{4-4}(-11)_{11} - T_{4-4}(1-1)_{11}] + \frac{1}{2} T_{4-4}(00)_{00} 4\mu [S_{4-4}(1-1)_{11} - S_{4-4}(-11)_{11}] \\ & + \quad \quad \quad + \\ & - \frac{1}{2} S_{2-1}(-10)_{10} \quad \mu T_{2-1}(0-1)_{01} \quad + \frac{1}{2} S_{01}(-10)_{10} \quad \mu T_{01}(0-1)_{01} \\ & - \frac{1}{2} S_{3-2}(-10)_{10} \quad 2 \mu T_{3-2}(0-1)_{01} \quad + \frac{1}{2} S_{1-2}(10)_{10} \quad 2 \mu T_{1-2}(01)_{01} \\ & - \frac{1}{2} S_{4-3}(-10)_{10} \quad 3 \mu T_{4-3}(0-1)_{01} \quad + \frac{1}{2} S_{2-3}(10)_{10} \quad 3 \mu T_{2-3}(01)_{01} \\ & - \\ & + \frac{1}{2} S_{2-1}(0-1)_{01} \quad \mu T_{2-1}(-10)_{10} \quad - \frac{1}{2} S_{01}(0-1)_{01} \quad \mu T_{01}(-10)_{10} \\ & + \frac{1}{2} S_{3-2}(0-1)_{01} \quad 2 \mu T_{3-2}(-10)_{10} \quad - \frac{1}{2} S_{1-2}(01)_{01} \quad 2 \mu T_{1-2}(10)_{10} \\ & + \frac{1}{2} S_{4-3}(0-1)_{01} \quad 3 \mu T_{4-3}(-10)_{10} \quad - \frac{1}{2} S_{2-3}(01)_{01} \quad 3 \mu T_{2-3}(10)_{10} \\ & + \end{aligned} $
$2-2\mu$	η'^2	$ \begin{aligned} \delta Q_{2-2}(00)_{02} = & + \frac{1}{2} S_{1-1}(00)_{02} \quad \mu [T_{1-1}(00)_{00} - T_{3-3}(00)_{00}] + \frac{1}{2} S_{1-1}(00)_{00} \quad \mu [T_{1-1}(00)_{02} - T_{3-3}(00)_{02}] \\ & + \frac{1}{2} S_{2-2}(00)_{02} \quad 2 \mu [2 T_{00}(00)_{00} - T_{4-4}(00)_{00}] + \frac{1}{2} S_{2-2}(00)_{00} \quad 2 \mu [2 T_{00}(00)_{02} - T_{4-4}(00)_{02}] \\ & + \frac{1}{2} S_{3-3}(00)_{02} \quad 3 \mu [T_{1-1}(00)_{00} - T_{5-5}(00)_{00}] + \frac{1}{2} S_{3-3}(00)_{00} \quad 3 \mu [T_{1-1}(00)_{02} - T_{5-5}(00)_{02}] \\ & + \end{aligned} $

Argument	Exc.	Coefficient
		$ \begin{aligned} & + \frac{1}{2} S_{2-1}(0-1)_{01} \mu [T_{01}(0-1)_{01} - T_{4-3}(0-1)_{01}] + \frac{1}{2} S_{01}(0-1)_{01} \mu [T_{2-1}(0-1)_{01} - T_{2-3}(01)_{01}] \\ & + \frac{1}{2} S_{3-2}(0-1)_{01} 2 \mu [T_{10}(0-1)_{01} - T_{5-4}(0-1)_{01}] + \frac{1}{2} S_{1-2}(01)_{01} 2 \mu [T_{10}(0-1)_{01} - T_{3-4}(01)_{01}] \\ & + \frac{1}{2} S_{4-3}(0-1)_{01} 3 \mu [T_{2-1}(0-1)_{01} - T_{6-5}(0-1)_{01}] + \frac{1}{2} S_{2-3}(01)_{01} 3 \mu [T_{01}(0-1)_{01} - T_{4-5}(01)_{01}] \\ & + \dots + \dots \end{aligned} $
$2\mu-2\mu\varsigma'$	η'^2	$ \begin{aligned} \delta Q_{02}(0-2)_{02} = & + \frac{1}{2} S_{1-1}(00)_{00} \mu [T_{1-3}(02)_{02} - T_{11}(0-2)_{02}] - \frac{1}{2} T_{1-1}(00)_{00} [S_{11}(0-2)_{02} \mu + S_{1-3}(02)_{02} 3\mu] \\ & + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{2-4}(02)_{02} - T_{20}(0-2)_{02}] - \frac{1}{2} T_{2-2}(00)_{00} S_{2-4}(02)_{02} 4\mu \\ & + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{3-5}(02)_{02} - T_{3-1}(0-2)_{02}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{3-1}(0-2)_{02} \mu - S_{3-5}(02)_{02} 5\mu] \\ & + \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{4-6}(02)_{02} - T_{4-2}(0-2)_{02}] + \frac{1}{2} T_{4-4}(00)_{00} [S_{4-2}(0-2)_{02} 2\mu - S_{4-6}(02)_{02} 6\mu] \\ & + \dots + \dots \end{aligned} $ $ \begin{aligned} & + \frac{1}{2} S_{2-1}(0-1)_{01} \mu T_{2-3}(01)_{01} - \frac{1}{2} S_{01}(0-1)_{01} \mu T_{01}(0-1)_{01} \\ & + \frac{1}{2} S_{3-2}(0-1)_{01} 2 \mu T_{3-4}(01)_{01} - \frac{1}{2} S_{1-2}(01)_{01} 2 \mu T_{10}(0-1)_{01} \\ & + \frac{1}{2} S_{4-3}(0-1)_{01} 3 \mu T_{4-5}(01)_{01} - \frac{1}{2} S_{2-3}(01)_{01} 3 \mu T_{2-1}(0-1)_{01} \\ & + \dots - \dots \end{aligned} $
$1-3\mu+2\mu\varsigma'$	η'^2	$ \begin{aligned} \delta Q_{1-3}(02)_{02} = & + \frac{1}{2} S_{1-1}(00)_{00} \mu [T_{02}(0-2)_{02} - T_{2-4}(02)_{02}] + \frac{1}{2} T_{1-1}(00)_{00} [S_{2-4}(02)_{02} 4\mu + S_{02}(0-2)_{02} 2\mu] \\ & + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{11}(0-2)_{02} - T_{3-5}(02)_{02}] + \frac{1}{2} T_{2-2}(00)_{00} [S_{3-5}(02)_{02} 5\mu + S_{11}(0-2)_{02} \mu] \\ & + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{20}(0-2)_{02} - T_{4-6}(02)_{02}] + \frac{1}{2} T_{3-3}(00)_{00} S_{4-6}(02)_{02} 6\mu \\ & + \frac{1}{2} S_{4-4}(00)_{00} 4\mu [T_{3-1}(0-2)_{02} - T_{5-7}(02)_{02}] + \frac{1}{2} T_{4-4}(00)_{00} [S_{5-7}(02)_{02} 7\mu - S_{3-1}(0-2)_{02} \mu] \\ & + \dots + \dots \end{aligned} $ $ \begin{aligned} & - \frac{1}{2} S_{2-1}(0-1)_{01} \mu T_{3-4}(01)_{01} + \frac{1}{2} S_{01}(0-1)_{01} \mu T_{1-2}(01)_{01} \\ & - \frac{1}{2} S_{3-2}(0-1)_{01} 2 \mu T_{4-5}(01)_{01} + \frac{1}{2} S_{1-2}(01)_{01} 2 \mu T_{01}(0-1)_{01} \\ & - \frac{1}{2} S_{4-3}(0-1)_{01} 3 \mu T_{5-6}(01)_{01} + \frac{1}{2} S_{2-3}(01)_{01} 3 \mu T_{10}(0-1)_{01} \\ & - \dots + \dots \end{aligned} $
$2-4\mu+2\mu\varsigma'$	η'^2	$ \begin{aligned} \delta Q_{2-4}(02)_{02} = & + \frac{1}{2} S_{1-1}(00)_{00} \mu [T_{1-3}(02)_{02} - T_{3-5}(02)_{02}] + \frac{1}{2} T_{1-1}(00)_{00} [S_{3-5}(02)_{02} 5\mu + S_{1-3}(02)_{02} 3\mu] \\ & + \frac{1}{2} S_{2-2}(00)_{00} 2\mu [T_{02}(0-2)_{02} - T_{4-6}(02)_{02}] + \frac{1}{2} T_{2-2}(00)_{00} [S_{4-6}(02)_{02} 6\mu + S_{02}(0-2)_{02} 2\mu] \\ & + \frac{1}{2} S_{3-3}(00)_{00} 3\mu [T_{11}(0-2)_{02} - T_{5-7}(02)_{02}] + \frac{1}{2} T_{3-3}(00)_{00} [S_{5-7}(02)_{02} 7\mu + S_{11}(0-2)_{02} \mu] \\ & + \dots + \dots \end{aligned} $ $ \begin{aligned} & - \frac{1}{2} S_{2-1}(0-1)_{01} \mu T_{4-5}(01)_{01} + \frac{1}{2} S_{01}(0-1)_{01} \mu T_{2-3}(01)_{01} \\ & - \frac{1}{2} S_{3-2}(0-1)_{01} 2 \mu T_{5-6}(01)_{01} + \frac{1}{2} S_{1-2}(01)_{01} 2 \mu T_{1-2}(01)_{01} \\ & - \frac{1}{2} S_{4-3}(0-1)_{01} 3 \mu T_{6-7}(01)_{01} + \frac{1}{2} S_{2-3}(01)_{01} 3 \mu T_{01}(0-1)_{01} \\ & - \dots + \dots \end{aligned} $

Formeln für die Entwicklungskoeffizienten $\delta C_{\nu\nu'}(nn')_{ss'}$.

Argument	Exc.	Coefficient
—	—	$\delta C_{00}(00)_{00} = -\frac{1}{2} R_{1-1}(00)_{00} \mu T_{1-1}(00)_{00} l_{1-1}(00)$ $-\frac{1}{2} R_{2-2}(00)_{00} 2 \mu T_{2-2}(00)_{00} l_{2-2}(00)$ $-\frac{1}{2} R_{3-3}(00)_{00} 3 \mu T_{3-3}(00)_{00} l_{3-3}(00)$ $-\frac{1}{2} R_{4-4}(00)_{00} 4 \mu T_{4-4}(00)_{00} l_{4-4}(00)$
$2-2\mu$	—	$\delta C_{2-2}(00)_{00} = +\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{3-3}(00)_{00} l_{1-1}(00) - T_{1-1}(00)_{00} l_{3-3}(00)]$ $-\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{5-5}(00)_{00} l_{1-1}(00) + T_{1-1}(00)_{00} l_{5-5}(00)]$ $-\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{6-6}(00)_{00} l_{2-2}(00) + T_{2-2}(00)_{00} l_{6-6}(00)]$ $-\frac{1}{2} R_{5-5}(00)_{00} 5 \mu [T_{7-7}(00)_{00} l_{3-3}(00) + T_{3-3}(00)_{00} l_{7-7}(00)]$
$1-s$	η	$\delta C_{10}(-10)_{10} = -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{01}(-10)_{10} l_{2-1}(-10) - T_{2-1}(-10)_{10} l_{01}(-10)]$ $-\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{1-2}(10)_{10} l_{3-2}(-10) + T_{3-2}(-10)_{10} l_{1-2}(10)]$ $-\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{2-3}(10)_{10} l_{4-3}(-10) + T_{4-3}(-10)_{10} l_{2-3}(10)]$ $-\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{3-4}(10)_{10} l_{5-4}(-10) + T_{5-4}(-10)_{10} l_{3-4}(10)]$ $+\frac{1}{2} T_{1-1}(00)_{00} \mu [R_{01}(-10)_{10} l_{11}(-20) - R_{2-1}(-10)_{10} l_{3-1}(-20)]$ $+\frac{1}{2} T_{2-2}(00)_{00} 2 \mu [R_{1-2}(10)_{10} l_{02}(-20) - R_{3-2}(-10)_{10} l_{4-2}(-20)]$ $-\frac{1}{2} T_{3-3}(00)_{00} 3 \mu [R_{2-3}(10)_{10} l_{1-3}(20) + R_{4-3}(-10)_{10} l_{5-3}(-20)]$ $-\frac{1}{2} T_{4-4}(00)_{00} 4 \mu [R_{3-4}(10)_{10} l_{2-4}(20) + R_{5-4}(-10)_{10} l_{6-4}(-20)]$
$1-2\mu+s$	η	$\delta C_{1-2}(10)_{10} = -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{2-3}(10)_{10} l_{01}(-10) + T_{01}(-10)_{10} l_{2-3}(10)]$ $-\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{3-4}(10)_{10} l_{10}(-10) + T_{10}(-10)_{10} l_{3-4}(10)]$ $-\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{4-5}(10)_{10} l_{2-1}(-10) + T_{2-1}(-10)_{10} l_{4-5}(10)]$ $-\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{5-6}(10)_{10} l_{3-2}(-10) + T_{3-2}(-10)_{10} l_{5-6}(10)]$ $-\frac{1}{2} T_{1-1}(00)_{00} [R_{2-3}(10)_{10} 3 \mu l_{3-5}(20) + R_{01}(-10)_{10} \mu l_{1-3}(20)]$ $-\frac{1}{2} T_{2-2}(00)_{00} R_{3-4}(10)_{10} 4 \mu l_{4-6}(20)$ $-\frac{1}{2} T_{3-3}(00)_{00} [R_{4-5}(10)_{10} 5 \mu l_{5-7}(20) + R_{2-1}(-10)_{10} \mu l_{11}(-20)]$ $-\frac{1}{2} T_{4-4}(00)_{00} [R_{5-6}(10)_{10} 6 \mu l_{6-8}(20) + R_{3-2}(-10)_{10} 2 \mu l_{20}(-20)]$
$2-3\mu+s$	η	$\delta C_{2-3}(10)_{10} = +\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{3-4}(10)_{10} l_{1-2}(10) - T_{1-2}(10)_{10} l_{3-4}(10)]$ $-\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{4-5}(10)_{10} l_{01}(-10) + T_{01}(-10)_{10} l_{4-5}(10)]$ $-\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{5-6}(10)_{10} l_{10}(-10) + T_{10}(-10)_{10} l_{5-6}(10)]$ $-\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{6-7}(10)_{10} l_{2-1}(-10) + T_{2-1}(-10)_{10} l_{6-7}(10)]$

Argument	Exc.	C o e f f i c i e n t
		$ \begin{aligned} & -\frac{1}{2} T_{1-1}(00)_{00} [R_{3-4}(10)_{10} 4 \mu l_{5-7}(20) + R_{1-2}(10)_{10} 2 \mu l_{3-5}(20)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} [R_{4-5}(10)_{10} 5 \mu l_{6-8}(20) + R_{01}(-10)_{10} \mu l_{2-4}(20)] \\ & -\frac{1}{2} T_{3-3}(00)_{00} R_{5-6}(10)_{10} 6 \mu l_{7-9}(20) \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{6-7}(10)_{10} 7 \mu l_{8-10}(20) + R_{2-1}(-10)_{10} \mu l_{02}(-20)] \\ & -\frac{1}{2} T_{5-5}(00)_{00} [R_{7-8}(10)_{10} 8 \mu l_{9-11}(20) + R_{3-2}(-10)_{10} 2 \mu l_{11}(-20)] \end{aligned} $
$1-\mu_S'$	η'	$ \begin{aligned} \delta C_{10}(0-1)_{01} = & -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{01}(0-1)_{01} l_{2-1}(0-1) - T_{2-1}(0-1)_{01} l_{01}(0-1)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{1-2}(01)_{01} l_{3-2}(0-1) + T_{3-2}(0-1)_{01} l_{1-2}(01)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{2-3}(01)_{01} l_{4-3}(0-1) + T_{4-3}(0-1)_{01} l_{2-3}(01)] \\ & -\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{3-4}(01)_{01} l_{5-4}(0-1) + T_{5-4}(0-1)_{01} l_{3-4}(01)] \\ & -\frac{1}{2} T_{1-1}(00)_{00} \mu [R_{01}(0-1)_{01} l_{11}(0-2) - R_{2-1}(0-1)_{01} l_{3-1}(0-2)] \\ & +\frac{1}{2} T_{2-2}(00)_{00} 2 \mu [R_{1-2}(01)_{01} l_{02}(0-2) - R_{3-2}(0-1)_{01} l_{4-2}(0-2)] \\ & -\frac{1}{2} T_{3-3}(00)_{00} 3 \mu [R_{2-3}(01)_{01} l_{1-3}(02) + R_{4-3}(0-1)_{01} l_{5-3}(0-2)] \\ & -\frac{1}{2} T_{4-4}(00)_{00} 4 \mu [R_{3-4}(01)_{01} l_{2-4}(02) + R_{5-4}(0-1)_{01} l_{6-4}(0-2)] \end{aligned} $
$1-2\mu+\mu_S'$	η'	$ \begin{aligned} \delta C_{1-2}(01)_{01} = & -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{2-3}(01)_{01} l_{01}(0-1) + T_{01}(0-1)_{01} l_{2-3}(01)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{3-4}(01)_{01} l_{10}(0-1) + T_{10}(0-1)_{01} l_{3-4}(01)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{4-5}(01)_{01} l_{2-1}(0-1) + T_{2-1}(0-1)_{01} l_{4-5}(01)] \\ & -\frac{1}{2} T_{1-1}(00)_{00} [R_{2-3}(01)_{01} 3 \mu l_{3-5}(02) + R_{01}(0-1)_{01} \mu l_{1-3}(02)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} R_{3-4}(01)_{01} 4 \mu l_{4-6}(02) \\ & -\frac{1}{2} T_{3-3}(00)_{00} [R_{4-5}(01)_{01} 5 \mu l_{5-7}(02) + R_{2-1}(0-1)_{01} \mu l_{11}(0-2)] \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{5-6}(01)_{01} 6 \mu l_{6-8}(02) + R_{3-2}(0-1)_{01} 2 \mu l_{20}(0-2)] \end{aligned} $
$2-3\mu+\mu_S'$	η'	$ \begin{aligned} \delta C_{2-3}(01)_{01} = & +\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{3-4}(01)_{01} l_{1-2}(01) - T_{1-2}(01)_{01} l_{3-4}(01)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{4-5}(01)_{01} l_{01}(0-1) + T_{01}(0-1)_{01} l_{4-5}(01)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{5-6}(01)_{01} l_{10}(0-1) + T_{10}(0-1)_{01} l_{5-6}(01)] \\ & -\frac{1}{2} T_{1-1}(00)_{00} [R_{3-4}(01)_{01} 4 \mu l_{5-7}(02) + R_{1-2}(01)_{01} 2 \mu l_{3-5}(02)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} [R_{4-5}(01)_{01} 5 \mu l_{6-8}(02) + R_{01}(0-1)_{01} \mu l_{2-4}(02)] \\ & -\frac{1}{2} T_{3-3}(00)_{00} R_{5-6}(01)_{01} 6 \mu l_{7-9}(02) \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{6-7}(01)_{01} 7 \mu l_{8-10}(02) + R_{2-1}(0-1)_{01} \mu l_{02}(0-2)] \\ & -\frac{1}{2} T_{5-5}(00)_{00} [R_{7-8}(01)_{01} 8 \mu l_{9-11}(02) + R_{3-2}(0-1)_{01} 2 \mu l_{11}(0-2)] \end{aligned} $
—	η^2	$ \begin{aligned} \delta C_{00}(00)_{20} = & -\frac{1}{2} R_{1-1}(00)_{20} \mu T_{1-1}(00)_{00} l_{1-1}(00) - \frac{1}{2} R_{1-1}(00)_{00} \mu T_{1-1}(00)_{20} l_{1-1}(00) \\ & -\frac{1}{2} R_{2-2}(00)_{20} 2 \mu T_{2-2}(00)_{00} l_{2-2}(00) - \frac{1}{2} R_{2-2}(00)_{00} 2 \mu T_{2-2}(00)_{20} l_{2-2}(00) \\ & -\frac{1}{2} R_{3-3}(00)_{20} 3 \mu T_{3-3}(00)_{00} l_{3-3}(00) - \frac{1}{2} R_{3-3}(00)_{00} 3 \mu T_{3-3}(00)_{20} l_{3-3}(00) \\ & -\frac{1}{2} R_{4-4}(00)_{20} 4 \mu T_{4-4}(00)_{00} l_{4-4}(00) - \frac{1}{2} R_{4-4}(00)_{00} 4 \mu T_{4-4}(00)_{20} l_{4-4}(00) \end{aligned} $

Argument	Exc.	Coefficient
		$ \begin{aligned} & -\frac{1}{2} R_{2-1}(-10)_{10} \quad \mu T_{2-1}(-10)_{10} l_{2-1}(-10) \quad + \frac{1}{2} R_{01}(-10)_{10} \quad \mu T_{01}(-10)_{10} l_{01}(-10) \\ & -\frac{1}{2} R_{3-2}(-10)_{10} \quad 2 \mu T_{3-2}(-10)_{10} l_{3-2}(-10) \quad - \frac{1}{2} R_{1-2}(10)_{10} \quad 2 \mu T_{1-2}(10)_{10} l_{1-2}(10) \\ & -\frac{1}{2} R_{4-3}(-10)_{10} \quad 3 \mu T_{4-3}(-10)_{10} l_{4-3}(-10) \quad - \frac{1}{2} R_{2-3}(10)_{10} \quad 3 \mu T_{2-3}(10)_{10} l_{2-3}(10) \end{aligned} $
$2-2\mu$	γ^2	$ \begin{aligned} \delta C_{2-2}(00)_{20} = & + \frac{1}{2} R_{1-1}(00)_{20} \quad \mu [T_{3-3}(00)_{00} l_{1-1}(00) - T_{1-1}(00)_{00} l_{3-3}(00)] \\ & - \frac{1}{2} R_{3-3}(00)_{20} \quad 3 \mu [T_{5-5}(00)_{00} l_{1-1}(00) + T_{1-1}(00)_{00} l_{5-5}(00)] \\ & - \frac{1}{2} R_{4-4}(00)_{20} \quad 4 \mu [T_{6-6}(00)_{00} l_{2-2}(00) + T_{2-2}(00)_{00} l_{6-6}(00)] \\ & - \frac{1}{2} R_{5-5}(00)_{20} \quad 5 \mu [T_{7-7}(00)_{00} l_{3-3}(00) + T_{3-3}(00)_{00} l_{7-7}(00)] \\ & + \frac{1}{2} R_{1-1}(00)_{00} \quad \mu [T_{3-3}(00)_{20} l_{1-1}(00) - T_{1-1}(00)_{20} l_{3-3}(00)] \\ & - \frac{1}{2} R_{3-3}(00)_{00} \quad 3 \mu [T_{5-5}(00)_{20} l_{1-1}(00) + T_{1-1}(00)_{20} l_{5-5}(00)] \\ & - \frac{1}{2} R_{4-4}(00)_{00} \quad 4 \mu [T_{6-6}(00)_{20} l_{2-2}(00) + T_{2-2}(00)_{20} l_{6-6}(00)] \\ & - \frac{1}{2} R_{2-1}(-10)_{10} \quad \mu [T_{01}(-10)_{10} l_{4-3}(-10) + T_{4-3}(-10)_{10} l_{01}(-10)] \\ & - \frac{1}{2} R_{3-2}(-10)_{10} \quad 2 \mu [T_{10}(-10)_{10} l_{5-4}(-10) + T_{5-4}(-10)_{10} l_{10}(-10)] \\ & - \frac{1}{2} R_{4-3}(-10)_{10} \quad 3 \mu [T_{2-1}(-10)_{10} l_{6-5}(-10) + T_{6-5}(-10)_{10} l_{2-1}(-10)] \\ & + \frac{1}{2} R_{01}(-10)_{10} \quad \mu [T_{2-3}(10)_{10} l_{2-1}(-10) - T_{2-1}(-10)_{10} l_{2-3}(10)] \\ & + \frac{1}{2} R_{1-2}(10)_{10} \quad 2 \mu [T_{3-4}(10)_{10} l_{10}(-10) - T_{10}(-10)_{10} l_{3-4}(10)] \\ & + \frac{1}{2} R_{2-3}(10)_{10} \quad 3 \mu [T_{4-5}(10)_{10} l_{01}(-10) - T_{01}(-10)_{10} l_{4-5}(10)] \\ & - \frac{1}{2} R_{3-4}(10)_{10} \quad 4 \mu [T_{5-6}(10)_{10} l_{1-2}(10) + T_{1-2}(10)_{10} l_{5-6}(10)] \\ & - \frac{1}{2} R_{4-5}(10)_{10} \quad 5 \mu [T_{6-7}(10)_{10} l_{2-3}(10) + T_{2-3}(10)_{10} l_{6-7}(10)] \end{aligned} $
$2\mu-2s$	γ^2	$ \begin{aligned} \delta C_{02}(-20)_{20} = & - \frac{1}{2} R_{1-1}(00)_{00} \quad \mu [T_{11}(-20)_{20} l_{1-3}(20) + T_{1-3}(20)_{20} l_{11}(-20)] \\ & - \frac{1}{2} R_{2-2}(00)_{00} \quad 2 \mu [T_{20}(-20)_{20} l_{2-4}(20) + T_{2-4}(20)_{20} l_{20}(-20)] \\ & - \frac{1}{2} R_{3-3}(00)_{00} \quad 3 \mu [T_{3-1}(-20)_{20} l_{3-5}(20) + T_{3-5}(20)_{20} l_{3-1}(-20)] \\ & - \frac{1}{2} R_{4-4}(00)_{00} \quad 4 \mu [T_{4-2}(-20)_{20} l_{4-6}(20) + T_{4-6}(20)_{20} l_{4-2}(-20)] \\ & - \frac{1}{2} T_{1-1}(00)_{00} [R_{1-3}(20)_{20} \quad 3 \mu l_{1-5}(40) - R_{11}(-20)_{20} \quad \mu l_{13}(-40)] \\ & - \frac{1}{2} T_{2-2}(00)_{00} [R_{2-4}(20)_{20} \quad 4 \mu l_{2-6}(40) \\ & - \frac{1}{2} T_{3-3}(00)_{00} [R_{3-5}(20)_{20} \quad 5 \mu l_{3-7}(40) + R_{3-1}(-20)_{20} \quad \mu l_{31}(-40)] \\ & - \frac{1}{2} T_{4-4}(00)_{00} [R_{4-6}(20)_{20} \quad 6 \mu l_{4-8}(40) + R_{4-2}(-20)_{20} \quad 2 \mu l_{40}(-40)] \\ & - \frac{1}{2} R_{2-1}(-10)_{10} \quad \mu T_{2-3}(10)_{10} l_{21}(-30) \quad + \frac{1}{2} R_{01}(-10)_{10} \quad \mu T_{01}(-10)_{10} l_{03}(-30) \\ & - \frac{1}{2} R_{3-2}(-10)_{10} \quad 2 \mu T_{3-4}(10)_{10} l_{30}(-30) \quad - \frac{1}{2} R_{1-2}(10)_{10} \quad 2 \mu T_{10}(-10)_{10} l_{1-4}(30) \\ & - \frac{1}{2} R_{4-3}(-10)_{10} \quad 3 \mu T_{4-5}(10)_{10} l_{4-1}(-30) \quad - \frac{1}{2} R_{2-3}(10)_{10} \quad 3 \mu T_{2-1}(-10)_{10} l_{2-5}(30) \end{aligned} $
$1-3\mu+2s$	γ^2	$ \begin{aligned} \delta C_{1-3}(20)_{20} = & - \frac{1}{2} R_{1-1}(00)_{00} \quad \mu [T_{02}(-20)_{20} l_{2-4}(20) + T_{2-4}(20)_{20} l_{02}(-20)] \\ & - \frac{1}{2} R_{2-2}(00)_{00} \quad 2 \mu [T_{11}(-20)_{20} l_{3-5}(20) + T_{3-5}(20)_{20} l_{11}(-20)] \\ & - \frac{1}{2} R_{3-3}(00)_{00} \quad 3 \mu [T_{20}(-20)_{20} l_{4-6}(20) + T_{4-6}(20)_{20} l_{20}(-20)] \\ & - \frac{1}{2} R_{4-4}(00)_{00} \quad 4 \mu [T_{3-1}(-20)_{20} l_{5-7}(20) + T_{5-7}(20)_{20} l_{3-1}(-20)] \end{aligned} $

Argument	Exc.	C o e f f i c i e n t
		$ \begin{aligned} & -\frac{1}{2} T_{1-1}(00)_{00} [R_{2-4}(20)_{20} 4 \mu l_{3-7}(40) + R_{02}(-20)_{20} 2 \mu l_{1-5}(40)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} [R_{3-5}(20)_{20} 5 \mu l_{4-8}(40) - R_{11}(-20)_{20} \mu l_{04}(-40)] \\ & -\frac{1}{2} T_{3-3}(00)_{00} [R_{4-6}(20)_{20} 6 \mu l_{5-9}(40) \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{5-7}(20)_{20} 7 \mu l_{6-10}(40) + R_{3-1}(-20)_{20} \mu l_{22}(-40)] \end{aligned} $
		$ \begin{aligned} & -\frac{1}{2} R_{2-1}(-10)_{10} \mu T_{3-4}(10)_{10} l_{12}(-30) \quad -\frac{1}{2} R_{01}(-10)_{10} \mu T_{1-2}(10)_{10} l_{1-4}(30) \\ & -\frac{1}{2} R_{3-2}(-10)_{10} 2 \mu T_{4-5}(10)_{10} l_{21}(-30) \quad -\frac{1}{2} R_{1-2}(10)_{10} 2 \mu T_{01}(-10)_{10} l_{2-5}(30) \\ & -\frac{1}{2} R_{4-3}(-10)_{10} 3 \mu T_{5-6}(10)_{10} l_{30}(-30) \quad -\frac{1}{2} R_{2-3}(10)_{10} 3 \mu T_{10}(-10)_{10} l_{3-6}(30) \end{aligned} $
$2-4\mu+2c$	γ_j^2	$ \begin{aligned} \delta C_{2-4}(20)_{20} = & -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{1-3}(20)_{20} l_{3-5}(20) - T_{3-5}(20)_{20} l_{1-3}(20)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{02}(-20)_{20} l_{4-6}(20) + T_{4-6}(20)_{20} l_{02}(-20)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{11}(-20)_{20} l_{5-7}(20) + T_{5-7}(20)_{20} l_{11}(-20)] \\ & -\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{20}(-20)_{20} l_{6-8}(20) + T_{6-8}(20)_{20} l_{20}(-20)] \\ & -\frac{1}{2} T_{1-1}(00)_{00} [R_{3-5}(20)_{20} 5 \mu l_{5-9}(40) + R_{1-3}(20)_{20} 3 \mu l_{3-7}(40)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} [R_{4-6}(20)_{20} 6 \mu l_{6-10}(40) + R_{02}(-20)_{20} 2 \mu l_{2-6}(40)] \\ & -\frac{1}{2} T_{3-3}(00)_{00} [R_{5-7}(20)_{20} 7 \mu l_{7-11}(40) + R_{11}(-20)_{20} \mu l_{1-5}(40)] \\ & -\frac{1}{2} R_{2-1}(-10)_{10} \mu T_{4-5}(10)_{10} l_{03}(-30) \quad -\frac{1}{2} R_{01}(-10)_{10} \mu T_{2-3}(10)_{10} l_{2-5}(30) \\ & -\frac{1}{2} R_{3-2}(-10)_{10} 2 \mu T_{5-6}(10)_{10} l_{12}(-30) \quad -\frac{1}{2} R_{1-2}(10)_{10} 2 \mu T_{1-2}(10)_{10} l_{3-6}(30) \\ & -\frac{1}{2} R_{4-3}(-10)_{10} 3 \mu T_{6-7}(10)_{10} l_{21}(-30) \quad -\frac{1}{2} R_{2-3}(10)_{10} 3 \mu T_{01}(-10)_{10} l_{4-7}(30) \end{aligned} $
$2\mu-s-\mu s'$	$\eta\eta'$	$ \begin{aligned} \delta C_{02}(-1-1)_{11} = & -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{11}(-1-1)_{11} l_{1-3}(11) + T_{1-3}(11)_{11} l_{11}(-1-1)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{20}(-1-1)_{11} l_{2-4}(11) + T_{2-4}(11)_{11} l_{20}(-1-1)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{3-1}(-1-1)_{11} l_{3-5}(11) + T_{3-5}(11)_{11} l_{3-1}(-1-1)] \\ & -\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{4-2}(-1-1)_{11} l_{4-6}(11) + T_{4-6}(11)_{11} l_{4-2}(-1-1)] \\ & -\frac{1}{2} T_{1-1}(00)_{00} [R_{1-3}(11)_{11} 3 \mu l_{1-5}(22) - R_{11}(-1-1)_{11} \mu l_{13}(-2-2)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} [R_{2-4}(11)_{11} 4 \mu l_{2-6}(22) \\ & -\frac{1}{2} T_{3-3}(00)_{00} [R_{3-5}(11)_{11} 5 \mu l_{3-7}(22) + R_{3-1}(-1-1)_{11} \mu l_{31}(-2-2)] \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{4-6}(11)_{11} 6 \mu l_{4-8}(22) + R_{4-2}(-1-1)_{11} 2 \mu l_{40}(-2-2)] \\ & -\frac{1}{2} R_{2-1}(-10)_{10} \mu T_{2-3}(01)_{01} l_{21}(-2-1) \quad +\frac{1}{2} R_{01}(-10)_{10} \mu T_{01}(0-1)_{01} l_{03}(-2-1) \\ & -\frac{1}{2} R_{3-2}(-10)_{10} 2 \mu T_{3-4}(01)_{01} l_{30}(-2-1) \quad -\frac{1}{2} R_{1-2}(10)_{10} 2 \mu T_{10}(0-1)_{01} l_{1-4}(21) \\ & -\frac{1}{2} R_{4-3}(-10)_{10} 3 \mu T_{4-5}(01)_{01} l_{4-1}(-2-1) \quad -\frac{1}{2} R_{2-3}(10)_{10} 3 \mu T_{2-1}(0-1)_{01} l_{2-5}(21) \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{2-3}(10)_{10} l_{21}(-1-2) \quad +\frac{1}{2} R_{01}(0-1)_{01} \mu T_{01}(-10)_{10} l_{03}(-1-2) \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{3-4}(10)_{10} l_{30}(-1-2) \quad -\frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{10}(-10)_{10} l_{1-4}(12) \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{4-5}(10)_{10} l_{4-1}(-1-2) \quad -\frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{2-1}(-10)_{10} l_{2-5}(12) \end{aligned} $

Argument	Exc.	Coefficient
$1-3\mu+s+\mu s'$	$\eta\eta'$	$\delta C_{1-3}(11)_{11} = -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{02}(-1-1)_{11} l_{2-4}(11) + T_{2-4}(11)_{11} l_{02}(-1-1)]$ $-\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{11}(-1-1)_{11} l_{3-5}(11) + T_{3-5}(11)_{11} l_{11}(-1-1)]$ $-\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{20}(-1-1)_{11} l_{4-6}(11) + T_{4-6}(11)_{11} l_{20}(-1-1)]$ $-\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{3-1}(-1-1)_{11} l_{5-7}(11) + T_{5-7}(11)_{11} l_{3-1}(-1-1)]$ $-\frac{1}{2} T_{1-1}(00)_{00} [R_{2-4}(11)_{11} 4 \mu l_{3-7}(22) + R_{02}(-1-1)_{11} 2 \mu l_{1-5}(22)]$ $-\frac{1}{2} T_{2-2}(00)_{00} [R_{3-5}(11)_{11} 5 \mu l_{4-8}(22) - R_{11}(-1-1)_{11} \mu l_{04}(-2-2)]$ $-\frac{1}{2} T_{3-3}(00)_{00} R_{4-6}(11)_{11} 6 \mu l_{5-9}(22)$ $-\frac{1}{2} T_{4-4}(00)_{00} [R_{5-7}(11)_{11} 7 \mu l_{6-10}(22) + R_{3-1}(-1-1)_{11} \mu l_{22}(-2-2)]$ $-\frac{1}{2} R_{2-1}(-10)_{10} \mu T_{3-4}(01)_{01} l_{12}(-2-1) - \frac{1}{2} R_{01}(-10)_{10} \mu T_{1-2}(01)_{01} l_{1-4}(21)$ $-\frac{1}{2} R_{3-2}(-10)_{10} 2 \mu T_{4-5}(01)_{01} l_{21}(-2-1) - \frac{1}{2} R_{1-2}(10)_{10} 2 \mu T_{01}(0-1)_{01} l_{2-5}(21)$ $-\frac{1}{2} R_{4-3}(-10)_{10} 3 \mu T_{5-6}(01)_{01} l_{30}(-2-1) - \frac{1}{2} R_{2-3}(10)_{10} 3 \mu T_{10}(0-1)_{01} l_{3-6}(21)$ $-\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{3-4}(10)_{10} l_{13}(-1-2) - \frac{1}{2} R_{01}(0-1)_{01} \mu T_{1-2}(10)_{10} l_{1-4}(12)$ $-\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{4-5}(10)_{10} l_{21}(-1-2) - \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{01}(-10)_{10} l_{2-5}(12)$ $-\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{5-6}(10)_{10} l_{30}(-1-2) - \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{10}(-10)_{10} l_{3-6}(12)$
$2-4\mu+s+\mu s'$	$\eta\eta'$	$\delta C_{2-4}(11)_{11} = -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{1-3}(11)_{11} l_{3-5}(11) - T_{3-5}(11)_{11} l_{1-3}(11)]$ $-\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{02}(-1-1)_{11} l_{4-6}(11) + T_{4-6}(11)_{11} l_{02}(-1-1)]$ $-\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{11}(-1-1)_{11} l_{5-7}(11) + T_{5-7}(11)_{11} l_{11}(-1-1)]$ $-\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{20}(-1-1)_{11} l_{6-8}(11) + T_{6-8}(11)_{11} l_{20}(-1-1)]$ $-\frac{1}{2} T_{1-1}(00)_{00} [R_{3-5}(11)_{11} 5 \mu l_{5-9}(22) + R_{1-3}(11)_{11} 3 \mu l_{3-7}(22)]$ $-\frac{1}{2} T_{2-2}(00)_{00} [R_{4-6}(11)_{11} 6 \mu l_{6-10}(22) + R_{02}(-1-1)_{11} 2 \mu l_{2-6}(22)]$ $-\frac{1}{2} T_{3-3}(00)_{00} [R_{5-7}(11)_{11} 7 \mu l_{7-11}(22) + R_{11}(-1-1)_{11} \mu l_{1-5}(22)]$ $-\frac{1}{2} R_{2-1}(-10)_{10} \mu T_{4-5}(01)_{01} l_{03}(-2-1) - \frac{1}{2} R_{01}(-10)_{10} \mu T_{2-3}(01)_{01} l_{2-5}(21)$ $-\frac{1}{2} R_{3-2}(-10)_{10} 2 \mu T_{5-6}(01)_{01} l_{12}(-2-1) - \frac{1}{2} R_{1-2}(10)_{10} 2 \mu T_{1-2}(01)_{01} l_{3-6}(21)$ $-\frac{1}{2} R_{4-3}(-10)_{10} 3 \mu T_{6-7}(01)_{01} l_{21}(-2-1) - \frac{1}{2} R_{2-3}(10)_{10} 3 \mu T_{01}(0-1)_{01} l_{4-7}(21)$ $-\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{4-5}(10)_{10} l_{03}(-1-2) - \frac{1}{2} R_{01}(0-1)_{01} \mu T_{2-3}(10)_{10} l_{2-5}(12)$ $-\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{5-6}(10)_{10} l_{12}(-1-2) - \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{1-2}(10)_{10} l_{3-6}(12)$ $-\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{6-7}(10)_{10} l_{21}(-1-2) - \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{01}(-10)_{10} l_{4-7}(12)$
$2-2\mu-s+\mu s'$	$\eta\eta'$	$\delta C_{2-2}(-11)_{11} = -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{1-1}(-11)_{11} l_{3-3}(-11) - T_{3-3}(-11)_{11} l_{1-1}(-11)]$ $-\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{00}(1-1)_{11} l_{4-4}(-11) + T_{4-4}(-11)_{11} l_{00}(1-1)]$ $-\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{1-1}(1-1)_{11} l_{5-5}(-11) + T_{5-5}(-11)_{11} l_{1-1}(1-1)]$ $-\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{2-2}(1-1)_{11} l_{6-6}(-11) + T_{6-6}(-11)_{11} l_{2-2}(1-1)]$

Argument	Exc.	Coefficient
		$ \begin{aligned} & -\frac{1}{2} T_{1-1}(00)_{00} [R_{3-3}(-11)_{11} 3 \mu l_{5-5}(-22) + R_{1-1}(-11)_{11} \mu l_{3-3}(-22)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} R_{4-4}(-11)_{11} 4 \mu l_{6-6}(-22) \\ & -\frac{1}{2} T_{3-3}(00)_{00} [R_{5-5}(-11)_{11} 5 \mu l_{7-7}(-22) - R_{1-1}(1-1)_{11} \mu l_{1-1}(-22)] \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{6-6}(-11)_{11} 6 \mu l_{8-8}(-22) + R_{2-2}(1-1)_{11} 2 \mu l_{00}(2-2)] \\ & -\frac{1}{2} R_{2-1}(-10)_{10} \mu T_{01}(0-1)_{01} l_{4-3}(-21) + \frac{1}{2} R_{01}(-10)_{10} \mu T_{2-3}(01)_{01} l_{2-1}(-21) \\ & -\frac{1}{2} R_{3-2}(-10)_{10} 2 \mu T_{10}(0-1)_{01} l_{5-4}(-21) + \frac{1}{2} R_{1-2}(10)_{10} 2 \mu T_{3-4}(01)_{01} l_{10}(-21) \\ & -\frac{1}{2} R_{4-3}(-10)_{10} 3 \mu T_{2-1}(0-1)_{01} l_{6-5}(-21) + \frac{1}{2} R_{2-3}(10)_{10} 3 \mu T_{4-5}(01)_{01} l_{01}(-21) \\ & -\frac{1}{2} R_{5-4}(-10)_{10} 4 \mu T_{3-2}(0-1)_{01} l_{7-6}(-21) - \frac{1}{2} R_{3-4}(10)_{10} 4 \mu T_{5-6}(01)_{01} l_{1-2}(2-1) \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{4-3}(-10)_{10} l_{01}(1-2) - \frac{1}{2} R_{01}(0-1)_{01} \mu T_{2-1}(-10)_{10} l_{2-3}(-12) \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{5-4}(-10)_{10} l_{10}(1-2) - \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{10}(-10)_{10} l_{3-4}(-12) \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{6-5}(-10)_{10} l_{2-1}(1-2) - \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{01}(-10)_{10} l_{4-5}(-12) \\ & -\frac{1}{2} R_{5-4}(0-1)_{01} 4 \mu T_{7-6}(-10)_{10} l_{3-2}(1-2) - \frac{1}{2} R_{3-4}(01)_{01} 4 \mu T_{1-2}(10)_{10} l_{5-6}(-12) \end{aligned} $
$2-2\mu+\zeta-\mu\zeta'$	$\eta\eta'$	$ \begin{aligned} \delta C_{2-2}(1-1)_{11} = & -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{1-1}(1-1)_{11} l_{3-3}(1-1) - T_{3-3}(1-1)_{11} l_{1-1}(1-1)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{00}(1-1)_{11} l_{4-4}(1-1) - T_{4-4}(1-1)_{11} l_{00}(1-1)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{1-1}(-11)_{11} l_{5-5}(1-1) + T_{5-5}(1-1)_{11} l_{1-1}(-11)] \\ & -\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{2-2}(-11)_{11} l_{6-6}(1-1) + T_{6-6}(1-1)_{11} l_{2-2}(-11)] \\ & -\frac{1}{2} T_{1-1}(00)_{00} [R_{3-3}(1-1)_{11} 3 \mu l_{5-5}(2-2) + R_{1-1}(1-1)_{11} \mu l_{3-3}(2-2)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} R_{4-4}(1-1)_{11} 4 \mu l_{6-6}(2-2) \\ & -\frac{1}{2} T_{3-3}(00)_{00} [R_{5-5}(1-1)_{11} 5 \mu l_{7-7}(2-2) - R_{1-1}(-11)_{11} \mu l_{1-1}(2-2)] \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{6-6}(1-1)_{11} 6 \mu l_{8-8}(2-2) - R_{2-2}(-11)_{11} 2 \mu l_{00}(2-2)] \\ & -\frac{1}{2} T_{5-5}(00)_{00} [R_{7-7}(1-1)_{11} 7 \mu l_{9-9}(2-2) + R_{3-3}(-11)_{11} 3 \mu l_{1-1}(-22)] \\ & -\frac{1}{2} R_{2-1}(-10)_{10} \mu T_{4-3}(0-1)_{01} l_{01}(-21) - \frac{1}{2} R_{01}(-10)_{10} \mu T_{2-1}(0-1)_{01} l_{2-3}(2-1) \\ & -\frac{1}{2} R_{3-2}(-10)_{10} 2 \mu T_{5-4}(0-1)_{01} l_{10}(-21) - \frac{1}{2} R_{1-2}(10)_{10} 2 \mu T_{10}(0-1)_{01} l_{3-4}(2-1) \\ & -\frac{1}{2} R_{4-3}(-10)_{10} 3 \mu T_{6-5}(0-1)_{01} l_{2-1}(-21) - \frac{1}{2} R_{2-3}(10)_{10} 3 \mu T_{01}(0-1)_{01} l_{4-5}(2-1) \\ & -\frac{1}{2} R_{5-4}(-10)_{10} 4 \mu T_{3-2}(0-1)_{01} l_{7-6}(-21) - \frac{1}{2} R_{3-4}(10)_{10} 4 \mu T_{1-2}(01)_{01} l_{5-6}(2-1) \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{01}(-10)_{10} l_{4-3}(1-2) + \frac{1}{2} R_{01}(0-1)_{01} \mu T_{2-3}(10)_{10} l_{2-1}(1-2) \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{10}(-10)_{10} l_{5-4}(1-2) + \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{3-4}(10)_{10} l_{10}(1-2) \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{2-1}(-10)_{10} l_{6-5}(1-2) + \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{4-5}(10)_{10} l_{01}(1-2) \\ & -\frac{1}{2} R_{5-4}(0-1)_{01} 4 \mu T_{3-2}(-10)_{10} l_{7-6}(1-2) - \frac{1}{2} R_{3-4}(01)_{01} 4 \mu T_{5-6}(10)_{10} l_{1-2}(-12) \end{aligned} $
$\zeta-\mu\zeta'$	$\eta\eta'$	$ \begin{aligned} \delta C_{00}(1-1)_{11} = & -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{1-1}(-11)_{11} l_{1-1}(1-1) + T_{1-1}(1-1)_{11} l_{1-1}(-11)_{11}] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{2-2}(-11)_{11} l_{2-2}(1-1) + T_{2-2}(1-1)_{11} l_{2-2}(-11)_{11}] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{3-3}(-11)_{11} l_{3-3}(1-1) + T_{3-3}(1-1)_{11} l_{3-3}(-11)_{11}] \end{aligned} $

Argument	Exc.	C o e f f i c i e n t
		$ \begin{aligned} & -\frac{1}{2} T_{1-1}(00)_{00} \mu [R_{1-1}(-11)_{11} l_{1-1}(-22) + R_{1-1}(1-1)_{11} l_{1-1}(2-2)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} 2 \mu [R_{2-2}(-11)_{11} l_{2-2}(-22) + R_{2-2}(1-1)_{11} l_{2-2}(2-2)] \\ & -\frac{1}{2} T_{3-3}(00)_{00} 3 \mu [R_{3-3}(-11)_{11} l_{3-3}(-22) + R_{3-3}(1-1)_{11} l_{3-3}(2-2)] \\ & -\frac{1}{2} R_{2-1}(-10)_{10} \mu T_{2-1}(0-1)_{01} l_{2-1}(-21) + \frac{1}{2} R_{01}(-10)_{10} \mu T_{01}(0-1)_{01} l_{01}(-21) \\ & -\frac{1}{2} R_{3-2}(-10)_{10} 2 \mu T_{3-2}(0-1)_{01} l_{3-2}(-21) - \frac{1}{2} R_{1-2}(10)_{10} 2 \mu T_{1-2}(01)_{01} l_{1-2}(2-1) \\ & -\frac{1}{2} R_{4-3}(-10)_{10} 3 \mu T_{4-3}(0-1)_{01} l_{4-3}(-21) - \frac{1}{2} R_{2-3}(10)_{10} 3 \mu T_{2-3}(01)_{01} l_{2-3}(2-1) \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{2-1}(-10)_{10} l_{2-1}(1-2) + \frac{1}{2} R_{01}(0-1)_{01} \mu T_{01}(-10)_{10} l_{01}(1-2) \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{3-2}(-10)_{10} l_{3-2}(1-2) - \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{1-2}(10)_{10} l_{1-2}(-12) \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{4-3}(-10)_{10} l_{4-3}(1-2) - \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{2-3}(10)_{10} l_{2-3}(-12) \end{aligned} $
η'^2		$ \begin{aligned} \delta C_{00}(00)_{02} &= -\frac{1}{2} R_{1-1}(00)_{02} \mu T_{1-1}(00)_{00} l_{1-1}(00) - \frac{1}{2} R_{1-1}(00)_{00} \mu T_{1-1}(00)_{02} l_{1-1}(00) \\ & -\frac{1}{2} R_{2-2}(00)_{02} 2 \mu T_{2-2}(00)_{00} l_{2-2}(00) - \frac{1}{2} R_{2-2}(00)_{00} 2 \mu T_{2-2}(00)_{02} l_{2-2}(00) \\ & -\frac{1}{2} R_{3-3}(00)_{02} 3 \mu T_{3-3}(00)_{00} l_{3-3}(00) - \frac{1}{2} R_{3-3}(00)_{00} 3 \mu T_{3-3}(00)_{02} l_{3-3}(00) \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{2-1}(0-1)_{01} l_{2-1}(0-1) + \frac{1}{2} R_{01}(0-1)_{01} \mu T_{01}(0-1)_{01} l_{01}(0-1) \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{3-2}(0-1)_{01} l_{3-2}(0-1) - \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{1-2}(01)_{01} l_{1-2}(01) \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{4-3}(0-1)_{01} l_{4-3}(0-1) - \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{2-3}(01)_{01} l_{2-3}(01) \end{aligned} $
$2-2\mu$	η'^2	$ \begin{aligned} \delta C_{2-2}(00)_{02} &= +\frac{1}{2} R_{1-1}(00)_{02} \mu [T_{3-3}(00)_{00} l_{1-1}(00) - T_{1-1}(00)_{00} l_{3-3}(00)] \\ & -\frac{1}{2} R_{3-3}(00)_{02} 3 \mu [T_{5-5}(00)_{00} l_{1-1}(00) + T_{1-1}(00)_{00} l_{5-5}(00)] \\ & -\frac{1}{2} R_{4-4}(00)_{02} 4 \mu [T_{6-6}(00)_{00} l_{2-2}(00) + T_{2-2}(00)_{00} l_{6-6}(00)] \\ & +\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{3-3}(00)_{02} l_{1-1}(00) - T_{1-1}(00)_{02} l_{3-3}(00)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{5-5}(00)_{02} l_{1-1}(00) + T_{1-1}(00)_{02} l_{5-5}(00)] \\ & -\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{6-6}(00)_{02} l_{2-2}(00) + T_{2-2}(00)_{02} l_{6-6}(00)] \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu [T_{01}(0-1)_{01} l_{4-3}(0-1) + T_{4-3}(0-1)_{01} l_{01}(0-1)] \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu [T_{10}(0-1)_{01} l_{5-4}(0-1) + T_{5-4}(0-1)_{01} l_{10}(0-1)] \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu [T_{2-1}(0-1)_{01} l_{6-5}(0-1) + T_{6-5}(0-1)_{01} l_{2-1}(0-1)] \\ & +\frac{1}{2} R_{01}(0-1)_{01} \mu [T_{2-3}(01)_{01} l_{2-1}(0-1) - T_{2-1}(0-1)_{01} l_{2-3}(01)] \\ & +\frac{1}{2} R_{1-2}(01)_{01} 2 \mu [T_{3-4}(01)_{01} l_{10}(0-1) - T_{10}(0-1)_{01} l_{3-4}(01)] \\ & +\frac{1}{2} R_{2-3}(01)_{01} 3 \mu [T_{4-5}(01)_{01} l_{01}(0-1) - T_{01}(0-1)_{01} l_{4-5}(01)] \\ & -\frac{1}{2} R_{3-4}(01)_{01} 4 \mu [T_{5-6}(01)_{01} l_{1-2}(01) + T_{1-2}(01)_{01} l_{5-6}(01)] \\ & -\frac{1}{2} R_{4-5}(01)_{01} 5 \mu [T_{6-7}(01)_{01} l_{2-3}(01) + T_{2-3}(01)_{01} l_{6-7}(01)] \end{aligned} $
$2\mu-2\mu S'$	η'^2	$ \begin{aligned} \delta C_{02}(0-2)_{02} &= -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{11}(0-2)_{02} l_{1-3}(02) + T_{1-3}(02)_{02} l_{11}(0-2)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{20}(0-2)_{02} l_{2-4}(02) + T_{2-4}(02)_{02} l_{20}(0-2)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{3-1}(0-2)_{02} l_{3-5}(02) + T_{3-5}(02)_{02} l_{3-1}(0-2)] \end{aligned} $

Argument	Exc.	Coefficient
		$ \begin{aligned} & -\frac{1}{2} T_{1-1}(00)_{00} [R_{1-3}(02)_{02} 3 \mu l_{1-5}(04) - R_{11}(0-2)_{02} \mu l_{13}(0-4)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} R_{2-4}(02)_{02} 4 \mu l_{2-6}(04) \\ & -\frac{1}{2} T_{3-3}(00)_{00} [R_{3-5}(02)_{02} 5 \mu l_{3-7}(04) + R_{3-1}(0-2)_{02} \mu l_{31}(0-4)] \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{4-6}(02)_{02} 6 \mu l_{4-8}(04) + R_{4-2}(0-2)_{02} 2 \mu l_{40}(0-4)] \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{2-3}(01)_{01} l_{21}(0-3) + \frac{1}{2} R_{01}(0-1)_{01} \mu T_{01}(0-1)_{01} l_{03}(0-3) \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{3-4}(01)_{01} l_{30}(0-3) - \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{10}(0-1)_{01} l_{1-4}(03) \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{4-5}(01)_{01} l_{4-1}(0-3) - \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{2-1}(0-1)_{01} l_{2-5}(03) \end{aligned} $
$1-3\mu+2\mu\zeta'$	η'^2	$ \begin{aligned} \delta C_{1-3}(02)_{02} = & -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{02}(0-2)_{02} l_{2-4}(02) + T_{2-4}(02)_{02} l_{02}(0-2)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{11}(0-2)_{02} l_{3-5}(02) + T_{3-5}(02)_{02} l_{11}(0-2)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{20}(0-2)_{02} l_{4-6}(02) + T_{4-6}(02)_{02} l_{20}(0-2)] \\ & -\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{3-1}(0-2)_{02} l_{5-7}(02) + T_{5-7}(02)_{02} l_{3-1}(0-2)] \\ & -\frac{1}{2} T_{1-1}(00)_{00} [R_{2-4}(02)_{02} 4 \mu l_{3-7}(04) + R_{02}(0-2)_{02} 2 \mu l_{1-5}(04)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} [R_{3-5}(02)_{02} 5 \mu l_{4-8}(04) - R_{11}(0-2)_{02} \mu l_{04}(0-4)] \\ & -\frac{1}{2} T_{3-3}(00)_{00} R_{4-6}(02)_{02} 6 \mu l_{5-9}(04) \\ & -\frac{1}{2} T_{4-4}(00)_{00} [R_{5-7}(02)_{02} 7 \mu l_{6-10}(04) + R_{3-1}(0-2)_{02} \mu l_{22}(0-4)] \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{3-4}(01)_{01} l_{12}(0-3) - \frac{1}{2} R_{01}(0-1)_{01} \mu T_{1-2}(01)_{01} l_{1-4}(03) \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{4-5}(01)_{01} l_{21}(0-3) - \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{01}(0-1)_{01} l_{2-5}(03) \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{5-6}(01)_{01} l_{30}(0-3) - \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{10}(0-1)_{01} l_{3-6}(03) \end{aligned} $
$2-4\mu+2\mu\zeta'$	η'^2	$ \begin{aligned} \delta C_{2-4}(02)_{02} = & -\frac{1}{2} R_{1-1}(00)_{00} \mu [T_{1-3}(02)_{02} l_{3-5}(02) - T_{3-5}(02)_{02} l_{1-3}(02)] \\ & -\frac{1}{2} R_{2-2}(00)_{00} 2 \mu [T_{02}(0-2)_{02} l_{4-6}(02) + T_{4-6}(02)_{02} l_{02}(0-2)] \\ & -\frac{1}{2} R_{3-3}(00)_{00} 3 \mu [T_{11}(0-2)_{02} l_{5-7}(02) + T_{5-7}(02)_{02} l_{11}(0-2)] \\ & -\frac{1}{2} R_{4-4}(00)_{00} 4 \mu [T_{20}(0-2)_{02} l_{6-8}(02) + T_{6-8}(02)_{02} l_{20}(0-2)] \\ & -\frac{1}{2} T_{1-1}(00)_{00} [R_{3-5}(02)_{02} 5 \mu l_{5-9}(04) + R_{1-3}(02)_{02} 3 \mu l_{3-7}(04)] \\ & -\frac{1}{2} T_{2-2}(00)_{00} [R_{4-6}(02)_{02} 6 \mu l_{6-10}(04) + R_{02}(0-2)_{02} 2 \mu l_{2-6}(04)] \\ & -\frac{1}{2} T_{3-3}(00)_{00} [R_{5-7}(02)_{02} 7 \mu l_{7-11}(04) + R_{11}(0-2)_{02} \mu l_{1-5}(04)] \\ & -\frac{1}{2} R_{2-1}(0-1)_{01} \mu T_{4-5}(01)_{01} l_{03}(0-3) - \frac{1}{2} R_{01}(0-1)_{01} \mu T_{2-3}(01)_{01} l_{2-5}(03) \\ & -\frac{1}{2} R_{3-2}(0-1)_{01} 2 \mu T_{5-6}(01)_{01} l_{12}(0-3) - \frac{1}{2} R_{1-2}(01)_{01} 2 \mu T_{1-2}(01)_{01} l_{3-6}(03) \\ & -\frac{1}{2} R_{4-3}(0-1)_{01} 3 \mu T_{6-7}(01)_{01} l_{21}(0-3) - \frac{1}{2} R_{2-3}(01)_{01} 3 \mu T_{01}(0-1)_{01} l_{4-7}(03) \end{aligned} $

Formeln für die Entwicklungskoeffizienten $\Delta Q_{\mu\mu'}(nn')_{ss'}$.

Argument	Exc.	Coefficient
$2-2\mu$	—	$\begin{aligned} \Delta Q_{2-2}(00)_{00} = & + \frac{3}{2} Q_{1-1}(00)_{00} [S_{1-1}(00)_{00} - S_{3-3}(00)_{00}] \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [2 S_{00}(00)_{00} - S_{4-4}(00)_{00}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{1-1}(00)_{00} - S_{5-5}(00)_{00}] \\ & + \frac{3}{2} Q_{4-4}(00)_{00} [S_{2-2}(00)_{00} - S_{6-6}(00)_{00}] \\ & + \end{aligned}$
$1-s$	η	$\begin{aligned} \Delta Q_{10}(-10)_{10} = & + \frac{3}{2} Q_{1-1}(00)_{00} [S_{01}(-10)_{10} - S_{2-1}(-10)_{10}] + 3 S_{00}(00)_{00} Q_{10}(-10)_{10} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{1-2}(10)_{10} - S_{3-2}(-10)_{10}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{2-1}(-10)_{10} + Q_{01}(-10)_{10}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{2-3}(10)_{10} - S_{4-3}(-10)_{10}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{3-2}(-10)_{10} - Q_{1-2}(10)_{10}] \\ & + \frac{3}{2} S_{3-3}(00)_{00} [Q_{4-3}(-10)_{10} - Q_{2-3}(10)_{10}] \\ & + \end{aligned}$
$1-2\mu+s$	η	$\begin{aligned} \Delta Q_{1-2}(10)_{10} = & + \frac{3}{2} Q_{1-1}(00)_{00} [S_{01}(-10)_{10} - S_{2-3}(10)_{10}] + 3 S_{00}(00)_{00} Q_{1-2}(10)_{10} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{10}(-10)_{10} - S_{3-4}(10)_{10}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{2-3}(10)_{10} - Q_{01}(-10)_{10}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{2-1}(-10)_{10} - S_{4-5}(10)_{10}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{3-4}(10)_{10} - Q_{10}(-10)_{10}] \\ & + \frac{3}{2} S_{3-3}(00)_{00} [Q_{4-5}(10)_{10} - Q_{2-1}(-10)_{10}] \\ & + \end{aligned}$
$2-3\mu+s$	η	$\begin{aligned} \Delta Q_{2-3}(10)_{10} = & + \frac{3}{2} Q_{1-1}(00)_{00} [S_{1-2}(10)_{10} - S_{3-4}(10)_{10}] + 3 S_{00}(00)_{00} Q_{2-3}(10)_{10} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{01}(-10)_{10} - S_{4-5}(10)_{10}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{3-4}(10)_{10} + Q_{1-2}(10)_{10}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{10}(-10)_{10} - S_{5-6}(10)_{10}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{4-5}(10)_{10} - Q_{01}(-10)_{10}] \\ & + \frac{3}{2} S_{3-3}(00)_{00} [Q_{5-6}(10)_{10} - Q_{10}(-10)_{10}] \\ & + \end{aligned}$
$1-\mu s'$	η'	$\begin{aligned} \Delta Q_{10}(0-1)_{01} = & + \frac{3}{2} Q_{1-1}(00)_{00} [S_{01}(0-1)_{01} - S_{2-1}(0-1)_{01}] + 3 S_{00}(00)_{00} Q_{10}(0-1)_{01} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{1-2}(01)_{01} - S_{3-2}(0-1)_{01}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{2-1}(0-1)_{01} + Q_{01}(0-1)_{01}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{2-3}(01)_{01} - S_{4-3}(0-1)_{01}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{3-2}(0-1)_{01} - Q_{1-2}(01)_{01}] \\ & + \frac{3}{2} S_{3-3}(00)_{00} [Q_{4-3}(0-1)_{01} - Q_{2-3}(01)_{01}] \\ & + \end{aligned}$
$1-2\mu+\mu s'$	η'	$\begin{aligned} \Delta Q_{1-2}(01)_{01} = & + \frac{3}{2} Q_{1-1}(00)_{00} [S_{01}(0-1)_{01} - S_{2-3}(01)_{01}] + 3 S_{00}(00)_{00} Q_{1-2}(01)_{01} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{10}(0-1)_{01} - S_{3-4}(01)_{01}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{2-3}(01)_{01} - Q_{01}(0-1)_{01}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{2-1}(0-1)_{01} - S_{4-5}(01)_{01}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{3-4}(01)_{01} - Q_{10}(0-1)_{01}] \\ & + \frac{3}{2} S_{3-3}(00)_{00} [Q_{4-5}(01)_{01} - Q_{2-1}(0-1)_{01}] \\ & + \end{aligned}$
$2-3\mu+\mu s'$	η'	$\begin{aligned} \Delta Q_{2-3}(01)_{01} = & + \frac{3}{2} Q_{1-1}(00)_{00} [S_{1-2}(01)_{01} - S_{3-4}(01)_{01}] + 3 S_{00}(00)_{00} Q_{2-3}(01)_{01} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{01}(0-1)_{01} - S_{4-5}(01)_{01}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{3-4}(01)_{01} + Q_{1-2}(01)_{01}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{10}(0-1)_{01} - S_{5-6}(01)_{01}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{4-5}(01)_{01} - Q_{01}(0-1)_{01}] \\ & + \frac{3}{2} Q_{4-4}(00)_{00} [S_{2-1}(0-1)_{01} - S_{6-7}(01)_{01}] + \frac{3}{2} S_{3-3}(00)_{00} [Q_{5-6}(01)_{01} - Q_{10}(0-1)_{01}] \\ & + \end{aligned}$

Argument	Exc.	C o e f f i c i e n t
$2-2\mu$	η^2	$\begin{aligned} \Delta Q_{2-2}(00)_{20} = & +\frac{3}{2} Q_{1-1}(00)_{20} [S_{1-1}(00)_{00} - S_{3-3}(00)_{00}] + \frac{3}{2} Q_{1-1}(00)_{00} [S_{1-1}(00)_{20} - S_{3-3}(00)_{20}] \\ & + \frac{3}{2} Q_{2-2}(00)_{20} [2 S_{00}(00)_{00} - S_{4-4}(00)_{00}] - \frac{3}{2} Q_{2-2}(00)_{00} S_{4-4}(00)_{20} \\ & + \frac{3}{2} Q_{3-3}(00)_{20} [S_{1-1}(00)_{00} - S_{5-5}(00)_{00}] + \frac{3}{2} Q_{3-3}(00)_{00} [S_{1-1}(00)_{20} - S_{5-5}(00)_{20}] \\ & + \frac{3}{2} Q_{4-4}(00)_{20} [S_{2-2}(00)_{00} - S_{6-6}(00)_{00}] + \frac{3}{2} Q_{4-4}(00)_{00} [S_{2-2}(00)_{20} - S_{6-6}(00)_{20}] \\ & + \dots + \dots \\ & + \frac{3}{2} Q_{2-1}(-10)_{10} [S_{01}(-10)_{10} - S_{4-3}(-10)_{10}] + \frac{3}{2} Q_{10}(-10)_{10} [S_{1-2}(10)_{10} - S_{3-2}(-10)_{10}] \\ & + \frac{3}{2} Q_{3-2}(-10)_{10} [S_{10}(-10)_{10} - S_{5-4}(-10)_{10}] + \frac{3}{2} Q_{01}(-10)_{10} [S_{2-3}(10)_{10} - S_{2-1}(-10)_{10}] \\ & + \frac{3}{2} Q_{4-3}(-10)_{10} [S_{2-1}(-10)_{10} - S_{6-5}(-10)_{10}] + \frac{3}{2} Q_{1-2}(10)_{10} [S_{10}(-10)_{10} - S_{3-4}(10)_{10}] \\ & + \frac{3}{2} Q_{5-4}(-10)_{10} [S_{3-2}(-10)_{10} - S_{7-6}(-10)_{10}] + \frac{3}{2} Q_{2-3}(10)_{10} [S_{01}(-10)_{10} - S_{4-5}(10)_{10}] \\ & + \dots + \dots + \frac{3}{2} Q_{3-4}(10)_{10} [S_{1-2}(10)_{10} - S_{5-6}(10)_{10}] \\ & + \dots + \dots \end{aligned}$
$2\mu-2\sigma$	η^2	$\begin{aligned} \Delta Q_{02}(-20)_{20} = & +\frac{3}{2} Q_{1-1}(00)_{00} [S_{1-3}(20)_{20} - S_{11}(-20)_{20}] + 3 S_{00}(00)_{00} Q_{02}(-20)_{20} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{2-4}(20)_{20} - S_{20}(-20)_{20}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{11}(-20)_{20} - Q_{1-3}(20)_{20}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{3-5}(20)_{20} - S_{3-1}(-20)_{20}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{20}(-20)_{20} - Q_{2-4}(20)_{20}] \\ & + \frac{3}{2} Q_{4-4}(00)_{00} [S_{4-6}(20)_{20} - S_{4-2}(-20)_{20}] + \frac{3}{2} S_{3-3}(00)_{00} [Q_{3-1}(-20)_{20} - Q_{3-5}(20)_{20}] \\ & + \dots + \dots \\ & + \frac{3}{2} Q_{10}(-10)_{10} S_{1-2}(10)_{10} + \frac{3}{2} Q_{01}(-10)_{10} S_{01}(-10)_{10} \\ & + \frac{3}{2} Q_{2-1}(-10)_{10} S_{2-3}(10)_{10} - \frac{3}{2} Q_{1-2}(10)_{10} S_{10}(-10)_{10} \\ & + \frac{3}{2} Q_{3-2}(-10)_{10} S_{3-4}(10)_{10} - \frac{3}{2} Q_{2-3}(10)_{10} S_{2-1}(-10)_{10} \\ & + \frac{3}{2} Q_{4-3}(-10)_{10} S_{4-5}(10)_{10} - \frac{3}{2} Q_{3-4}(10)_{10} S_{3-2}(-10)_{10} \\ & + \dots + \dots \end{aligned}$
$1-3\mu+2\sigma$	η^2	$\begin{aligned} \Delta Q_{1-3}(20)_{20} = & +\frac{3}{2} Q_{1-1}(00)_{00} [S_{02}(-20)_{20} - S_{2-4}(20)_{20}] + 3 S_{00}(00)_{00} Q_{1-3}(20)_{20} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{11}(-20)_{20} - S_{3-5}(20)_{20}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{2-4}(20)_{20} - Q_{02}(-20)_{20}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{20}(-20)_{20} - S_{4-6}(20)_{20}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{3-5}(20)_{20} - Q_{11}(-20)_{20}] \\ & + \frac{3}{2} Q_{4-4}(00)_{00} [S_{3-1}(-20)_{20} - S_{5-7}(20)_{20}] + \frac{3}{2} S_{3-3}(00)_{00} [Q_{4-6}(20)_{20} - Q_{20}(-20)_{20}] \\ & + \dots + \dots \\ & - \frac{3}{2} Q_{10}(-10)_{10} S_{2-3}(10)_{10} - \frac{3}{2} Q_{01}(-10)_{10} S_{1-2}(10)_{10} \\ & - \frac{3}{2} Q_{2-1}(-10)_{10} S_{3-4}(10)_{10} + \frac{3}{2} Q_{1-2}(10)_{10} S_{01}(-10)_{10} \\ & - \frac{3}{2} Q_{3-2}(-10)_{10} S_{4-5}(10)_{10} + \frac{3}{2} Q_{2-3}(10)_{10} S_{10}(-10)_{10} \\ & - \frac{3}{2} Q_{4-3}(-10)_{10} S_{5-6}(10)_{10} + \frac{3}{2} Q_{3-4}(10)_{10} S_{2-1}(-10)_{10} \\ & - \dots + \dots \end{aligned}$
$2-4\mu+2\sigma$	η^2	$\begin{aligned} \Delta Q_{2-4}(20)_{20} = & +\frac{3}{2} Q_{1-1}(00)_{00} [S_{1-3}(20)_{20} - S_{3-5}(20)_{20}] + 3 S_{00}(00)_{00} Q_{2-4}(20)_{20} \\ & + \frac{3}{2} Q_{2-2}(00)_{00} [S_{02}(-20)_{20} - S_{4-6}(20)_{20}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{3-5}(20)_{20} + Q_{1-3}(20)_{20}] \\ & + \frac{3}{2} Q_{3-3}(00)_{00} [S_{11}(-20)_{20} - S_{5-7}(20)_{20}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{4-6}(20)_{20} - Q_{02}(-20)_{20}] \\ & + \frac{3}{2} Q_{4-4}(00)_{00} [S_{20}(-20)_{20} - S_{6-8}(20)_{20}] + \frac{3}{2} S_{3-3}(00)_{00} [Q_{5-7}(20)_{20} - Q_{11}(-20)_{20}] \\ & + \dots + \dots \\ & - \frac{3}{2} Q_{10}(-10)_{10} S_{3-4}(10)_{10} - \frac{3}{2} Q_{01}(-10)_{10} S_{2-3}(10)_{10} \\ & - \frac{3}{2} Q_{2-1}(-10)_{10} S_{4-5}(10)_{10} + \frac{3}{2} Q_{1-2}(10)_{10} S_{4-1}(10)_{10} \\ & - \frac{3}{2} Q_{3-2}(-10)_{10} S_{5-6}(10)_{10} + \frac{3}{2} Q_{2-3}(10)_{10} S_{01}(-10)_{10} \\ & - \frac{3}{2} Q_{4-3}(-10)_{10} S_{6-7}(10)_{10} + \frac{3}{2} Q_{3-4}(10)_{10} S_{10}(-10)_{10} \\ & - \dots + \dots \end{aligned}$

Argument	Exc.	Coefficient
$2-2\mu+s-\mu s'$	$\eta\eta'$	$\begin{aligned} \mathcal{A}Q_{2-2}(1-1)_{11} = & +\frac{3}{2}Q_{1-1}(00)_{00}[S_{1-1}(1-1)_{11}-S_{3-3}(1-1)_{11}] + 3S_{00}(00)_{00}Q_{2-2}(1-1)_{11} \\ & -\frac{3}{2}Q_{2-2}(00)_{00}S_{4-4}(1-1)_{11} + \frac{3}{2}S_{1-1}(00)_{00}[Q_{3-3}(1-1)_{11}+Q_{1-1}(1-1)_{11}] \\ & +\frac{3}{2}Q_{3-3}(00)_{00}[S_{1-1}(-11)_{11}-S_{5-5}(1-1)_{11}] + \frac{3}{2}S_{2-2}(00)_{00}[Q_{4-4}(1-1)_{11}+Q_{00}(1-1)_{11}] \\ & +\frac{3}{2}Q_{4-4}(00)_{00}[S_{2-2}(-11)_{11}-S_{6-6}(1-1)_{11}] + \frac{3}{2}S_{3-3}(00)_{00}[Q_{5-5}(1-1)_{11}-Q_{1-1}(-11)_{11}] \\ & + \dots + \dots + \dots \\ & -\frac{3}{2}Q_{10}(-10)_{10}S_{3-2}(0-1)_{01}-\frac{3}{2}Q_{01}(-10)_{10}S_{2-1}(0-1)_{01}+\frac{3}{2}Q_{10}(0-1)_{01}S_{1-2}(10)_{10}+\frac{3}{2}Q_{01}(0-1)_{01}S_{2-3}(10)_{10} \\ & -\frac{3}{2}Q_{2-1}(-10)_{10}S_{4-3}(0-1)_{01}+\frac{3}{2}Q_{1-2}(10)_{10}S_{10}(0-1)_{01}+\frac{3}{2}Q_{2-1}(0-1)_{01}S_{01}(-10)_{10}-\frac{3}{2}Q_{1-2}(01)_{01}S_{3-4}(10)_{10} \\ & -\frac{3}{2}Q_{3-2}(-10)_{10}S_{5-4}(0-1)_{01}+\frac{3}{2}Q_{2-3}(10)_{10}S_{01}(0-1)_{01}+\frac{3}{2}Q_{3-2}(0-1)_{01}S_{10}(-10)_{10}-\frac{3}{2}Q_{2-3}(01)_{01}S_{4-5}(10)_{10} \\ & -\frac{3}{2}Q_{4-3}(-10)_{10}S_{6-5}(0-1)_{01}+\frac{3}{2}Q_{3-4}(10)_{10}S_{1-2}(01)_{01}+\frac{3}{2}Q_{4-3}(0-1)_{01}S_{2-1}(-10)_{10}-\frac{3}{2}Q_{3-4}(01)_{01}S_{5-6}(10)_{10} \\ & - \dots + \dots + \dots - \dots \end{aligned}$
$s-\mu s'$	$\eta\eta'$	$\begin{aligned} \mathcal{A}Q_{00}(1-1)_{11} = & -\frac{1}{2}s\{C_{10}(0-1)_{01}+\delta C_{10}(0-1)_{01}+2\delta S_{10}(0-1)_{01}+2\mathcal{A}S_{10}(0-1)_{01}\} \\ & +\frac{1}{2}\delta C_{10}(0-1)_{01}+\delta S_{10}(0-1)_{01}+\mathcal{A}S_{10}(0-1)_{01} \\ & +\frac{3}{2}Q_{1-1}(00)_{00}[S_{1-1}(-11)_{11}-S_{1-1}(1-1)_{11}] + 3S_{00}(00)_{00}Q_{00}(1-1)_{11} \\ & +\frac{3}{2}Q_{2-2}(00)_{00}[S_{2-2}(-11)_{11}-S_{2-2}(1-1)_{11}] + \frac{3}{2}S_{1-1}(00)_{00}[Q_{1-1}(1-1)_{11}-Q_{1-1}(-11)_{11}] \\ & +\frac{3}{2}Q_{3-3}(00)_{00}[S_{3-3}(-11)_{11}-S_{3-3}(1-1)_{11}] + \frac{3}{2}S_{2-2}(00)_{00}[Q_{2-2}(1-1)_{11}-Q_{2-2}(-11)_{11}] \\ & +\frac{3}{2}Q_{4-4}(00)_{00}[S_{4-4}(-11)_{11}-S_{4-4}(1-1)_{11}] + \frac{3}{2}S_{3-3}(00)_{00}[Q_{3-3}(1-1)_{11}-Q_{3-3}(-11)_{11}] \\ & + \dots + \dots + \dots \\ & -\frac{3}{2}Q_{10}(-10)_{10}S_{10}(0-1)_{01}-\frac{3}{2}Q_{01}(-10)_{10}S_{01}(0-1)_{01}+\frac{3}{2}Q_{10}(0-1)_{01}S_{10}(-10)_{10}+\frac{3}{2}Q_{01}(0-1)_{01}S_{01}(-10)_{10} \\ & -\frac{3}{2}Q_{2-1}(-10)_{10}S_{2-1}(0-1)_{01}+\frac{3}{2}Q_{1-2}(10)_{10}S_{1-2}(01)_{01}+\frac{3}{2}Q_{2-1}(0-1)_{01}S_{2-1}(-10)_{10}-\frac{3}{2}Q_{1-2}(01)_{01}S_{1-2}(10)_{10} \\ & -\frac{3}{2}Q_{3-2}(-10)_{10}S_{3-2}(0-1)_{01}+\frac{3}{2}Q_{2-3}(10)_{10}S_{2-3}(01)_{01}+\frac{3}{2}Q_{3-2}(0-1)_{01}S_{3-2}(-10)_{10}-\frac{3}{2}Q_{2-3}(01)_{01}S_{2-3}(10)_{10} \\ & -\frac{3}{2}Q_{4-3}(-10)_{10}S_{4-3}(0-1)_{01}+\frac{3}{2}Q_{3-4}(10)_{10}S_{3-4}(01)_{01}+\frac{3}{2}Q_{4-3}(0-1)_{01}S_{4-3}(-10)_{10}-\frac{3}{2}Q_{3-4}(01)_{01}S_{3-4}(10)_{10} \\ & - \dots + \dots + \dots - \dots \\ & + S_{00}(00)_{00}[S_{10}(0-1)_{01}-P_{10}(0-1)_{01}] - P_{00}(00)_{00}S_{10}(0-1)_{01} \\ & +\frac{1}{2}S_{1-1}(00)_{00}[S_{2-1}(0-1)_{01}+S_{01}(0-1)_{01}-P_{2-1}(0-1)_{01}-P_{01}(0-1)_{01}]-\frac{1}{2}P_{1-1}(00)_{00}[S_{2-1}(0-1)_{01}+S_{01}(0-1)_{01}] \\ & +\frac{1}{2}S_{2-2}(00)_{00}[S_{3-2}(0-1)_{01}+S_{1-2}(01)_{01}-P_{3-2}(0-1)_{01}-P_{1-2}(01)_{01}]-\frac{1}{2}P_{2-2}(00)_{00}[S_{3-2}(0-1)_{01}+S_{1-2}(01)_{01}] \\ & +\frac{1}{2}S_{3-3}(00)_{00}[S_{4-3}(0-1)_{01}+S_{2-3}(01)_{01}-P_{4-3}(0-1)_{01}-P_{2-3}(01)_{01}]-\frac{1}{2}P_{3-3}(00)_{00}[S_{4-3}(0-1)_{01}+S_{2-3}(01)_{01}] \\ & +\frac{1}{2}S_{4-4}(00)_{00}[S_{5-4}(0-1)_{01}+S_{3-4}(01)_{01}-P_{5-4}(0-1)_{01}-P_{3-4}(01)_{01}]-\frac{1}{2}P_{4-4}(00)_{00}[S_{5-4}(0-1)_{01}+S_{3-4}(01)_{01}] \\ & + \dots + \dots + \dots \\ & +\frac{1}{4}Q_{1-1}(00)_{00}[K_{2-1}(0-1)_{01}-K_{01}(0-1)_{01}] + \frac{1}{4}K_{1-1}(00)_{00}[Q_{2-1}(0-1)_{01}-Q_{01}(0-1)_{01}] \\ & +\frac{1}{4}Q_{2-2}(00)_{00}[K_{3-2}(0-1)_{01}+K_{1-2}(01)_{01}] + \frac{1}{4}K_{2-2}(00)_{00}[Q_{3-2}(0-1)_{01}+Q_{1-2}(01)_{01}] \\ & +\frac{1}{4}Q_{3-3}(00)_{00}[K_{4-3}(0-1)_{01}+K_{2-3}(01)_{01}] + \frac{1}{4}K_{3-3}(00)_{00}[Q_{4-3}(0-1)_{01}+Q_{2-3}(01)_{01}] \\ & + \dots + \dots + \dots \\ & -\frac{1}{4}B_{110}(n,-n)[R_{01}(0-1)_{01}+R_{2-1}(0-1)_{01}]-\frac{1}{4}B_{011}(n,-n+1)R_{1-1}(00)_{00} \\ & -\frac{1}{4}B_{210}(n,-n)[R_{1-2}(01)_{01}+R_{3-2}(0-1)_{01}]-\frac{1}{2}B_{111}(n,-n+1)R_{00}(00)_{00} \\ & -\frac{1}{4}B_{310}(n,-n)[R_{2-3}(01)_{01}+R_{4-3}(0-1)_{01}]-\frac{1}{4}B_{211}(n,-n+1)R_{1-1}(00)_{00} \\ & -\frac{1}{4}B_{410}(n,-n)[R_{3-4}(01)_{01}+R_{5-4}(0-1)_{01}]-\frac{1}{4}B_{311}(n,-n+1)R_{2-2}(00)_{00} \\ & - \dots + \dots + \dots \\ & -\frac{1}{4}B_{011}(n,-n-1)R_{1-1}(00)_{00} + \frac{1}{2}A_{110}(n,-n)[R_{01}(0-1)_{01}-R_{2-1}(0-1)_{01}] \\ & -\frac{1}{4}B_{111}(n,-n-1)R_{2-2}(00)_{00} + \frac{1}{2}A_{210}(n,-n)[R_{1-2}(01)_{01}-R_{3-2}(0-1)_{01}] \\ & -\frac{1}{4}B_{211}(n,-n-1)R_{3-3}(00)_{00} + \frac{1}{2}A_{310}(n,-n)[R_{2-3}(01)_{01}-R_{4-3}(0-1)_{01}] \\ & - \dots + \dots + \dots \end{aligned}$

Argument	Exc.	Coefficient
		$+ A_{111}(n, -n+1) R_{00}(00)_{00} - \frac{1}{2} A_{111}(n, -n-1) R_{2-2}(00)_{00}$ $+ \frac{1}{2} A_{211}(n, -n+1) R_{1-1}(00)_{00} - \frac{1}{2} A_{211}(n, -n-1) R_{3-3}(00)_{00}$ $+ \frac{1}{2} A_{311}(n, -n+1) R_{2-2}(00)_{00} - \frac{1}{2} A_{311}(n, -n-1) R_{4-4}(00)_{00}$ $+$
$2-2\mu$	η'^2	$\mathcal{A} Q_{2-2}(00)_{02} = + \frac{3}{2} Q_{1-1}(00)_{02} [S_{1-1}(00)_{00} - S_{3-3}(00)_{00}] + \frac{3}{2} Q_{1-1}(00)_{00} [S_{1-1}(00)_{02} - S_{3-3}(00)_{02}]$ $+ \frac{3}{2} Q_{2-2}(00)_{02} [2 S_{00}(00)_{00} - S_{4-4}(00)_{00}] - \frac{3}{2} Q_{2-2}(00)_{00} S_{4-4}(00)_{02}$ $+ \frac{3}{2} Q_{3-3}(00)_{02} [S_{1-1}(00)_{00} - S_{5-5}(00)_{00}] + \frac{3}{2} Q_{3-3}(00)_{00} [S_{1-1}(00)_{02} - S_{5-5}(00)_{02}]$ $+ \frac{3}{2} Q_{4-4}(00)_{02} [S_{2-2}(00)_{00} - S_{6-6}(00)_{00}] + \frac{3}{2} Q_{4-4}(00)_{00} [S_{2-2}(00)_{02} - S_{6-6}(00)_{02}]$ $+$ $+ \frac{3}{2} Q_{10}(0-1)_{01} [S_{1-2}(01)_{01} - S_{3-2}(0-1)_{01}] + \frac{3}{2} Q_{01}(0-1)_{01} [S_{2-3}(01)_{01} - S_{2-1}(0-1)_{01}]$ $+ \frac{3}{2} Q_{2-1}(0-1)_{01} [S_{01}(0-1)_{01} - S_{4-3}(0-1)_{01}] + \frac{3}{2} Q_{1-2}(01)_{01} [S_{10}(0-1)_{01} - S_{3-4}(01)_{01}]$ $+ \frac{3}{2} Q_{3-2}(0-1)_{01} [S_{10}(0-1)_{01} - S_{5-4}(0-1)_{01}] + \frac{3}{2} Q_{2-3}(01)_{01} [S_{01}(0-1)_{01} - S_{4-5}(01)_{01}]$ $+ \frac{3}{2} Q_{4-3}(0-1)_{01} [S_{2-1}(0-1)_{01} - S_{6-5}(0-1)_{01}] + \frac{3}{2} Q_{3-4}(01)_{01} [S_{1-2}(01)_{01} - S_{5-6}(01)_{01}]$ $+$
$2\mu-2\mu\zeta'$	η'^2	$\mathcal{A} Q_{02}(0-2)_{02} = + \frac{3}{2} Q_{1-1}(00)_{00} [S_{1-3}(02)_{02} - S_{11}(0-2)_{02}] + 3 S_{00}(00)_{00} Q_{02}(0-2)_{02}$ $+ \frac{3}{2} Q_{2-2}(00)_{00} [S_{2-4}(02)_{02} - S_{20}(0-2)_{02}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{11}(0-2)_{02} - Q_{1-3}(02)_{02}]$ $+ \frac{3}{2} Q_{3-3}(00)_{00} [S_{3-5}(02)_{02} - S_{3-1}(0-2)_{02}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{20}(0-2)_{02} - Q_{2-4}(02)_{02}]$ $+ \frac{3}{2} Q_{4-4}(00)_{00} [S_{4-6}(02)_{02} - S_{4-2}(0-2)_{02}] + \frac{3}{2} S_{3-3}(00)_{00} [Q_{3-1}(0-2)_{02} - Q_{3-5}(02)_{02}]$ $+$ $+ \frac{3}{2} Q_{10}(0-1)_{01} S_{1-2}(01)_{01} + \frac{3}{2} Q_{01}(0-1)_{01} S_{01}(0-1)_{01}$ $+ \frac{3}{2} Q_{2-1}(0-1)_{01} S_{2-3}(01)_{01} - \frac{3}{2} Q_{1-2}(01)_{01} S_{10}(0-1)_{01}$ $+ \frac{3}{2} Q_{3-2}(0-1)_{01} S_{3-4}(01)_{01} - \frac{3}{2} Q_{2-3}(01)_{01} S_{2-1}(0-1)_{01}$ $+$
$1-3\mu+2\mu\zeta'$	η'^2	$\mathcal{A} Q_{1-3}(02)_{02} = + \frac{3}{2} Q_{1-1}(00)_{00} [S_{02}(0-2)_{02} - S_{2-4}(02)_{02}] + 3 S_{00}(00)_{00} Q_{1-3}(02)_{02}$ $+ \frac{3}{2} Q_{2-2}(00)_{00} [S_{11}(0-2)_{02} - S_{3-5}(02)_{02}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{2-4}(02)_{02} - Q_{02}(0-2)_{02}]$ $+ \frac{3}{2} Q_{3-3}(00)_{00} [S_{20}(0-2)_{02} - S_{4-6}(02)_{02}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{3-5}(02)_{02} - Q_{11}(0-2)_{02}]$ $+ \frac{3}{2} Q_{4-4}(00)_{00} [S_{3-1}(0-2)_{02} - S_{5-7}(02)_{02}] + \frac{3}{2} S_{3-3}(00)_{00} [Q_{4-6}(02)_{02} - Q_{20}(0-2)_{02}]$ $+$ $- \frac{3}{2} Q_{10}(0-1)_{01} S_{2-3}(01)_{01} - \frac{3}{2} Q_{01}(0-1)_{01} S_{1-2}(01)_{01}$ $- \frac{3}{2} Q_{2-1}(0-1)_{01} S_{3-4}(01)_{01} + \frac{3}{2} Q_{1-2}(01)_{01} S_{01}(0-1)_{01}$ $- \frac{3}{2} Q_{3-2}(0-1)_{01} S_{4-5}(01)_{01} + \frac{3}{2} Q_{2-3}(01)_{01} S_{10}(0-1)_{01}$ $- \frac{3}{2} Q_{4-3}(0-1)_{01} S_{5-6}(01)_{01} + \frac{3}{2} Q_{3-4}(01)_{01} S_{2-1}(0-1)_{01}$ $+$
$2-4\mu+2\mu\zeta'$	η'^2	$\mathcal{A} Q_{2-4}(02)_{02} = + \frac{3}{2} Q_{1-1}(00)_{00} [S_{1-3}(02)_{02} - S_{3-5}(02)_{02}] + 3 S_{00}(00)_{00} Q_{2-4}(02)_{02}$ $+ \frac{3}{2} Q_{2-2}(00)_{00} [S_{02}(0-2)_{02} - S_{4-6}(02)_{02}] + \frac{3}{2} S_{1-1}(00)_{00} [Q_{3-5}(02)_{02} + Q_{1-3}(02)_{02}]$ $+ \frac{3}{2} Q_{3-3}(00)_{00} [S_{11}(0-2)_{02} - S_{5-7}(02)_{02}] + \frac{3}{2} S_{2-2}(00)_{00} [Q_{4-6}(02)_{02} - Q_{02}(0-2)_{02}]$ $+ \frac{3}{2} Q_{4-4}(00)_{00} [S_{20}(0-2)_{02} - S_{6-8}(02)_{02}] + \frac{3}{2} S_{3-3}(00)_{00} [Q_{5-7}(02)_{02} - Q_{11}(0-2)_{02}]$ $+$ $- \frac{3}{2} Q_{10}(0-1)_{01} S_{3-4}(01)_{01} - \frac{3}{2} Q_{01}(0-1)_{01} S_{2-3}(01)_{01}$ $- \frac{3}{2} Q_{2-1}(0-1)_{01} S_{4-5}(01)_{01} + \frac{3}{2} Q_{1-2}(01)_{01} S_{1-2}(01)_{01}$ $- \frac{3}{2} Q_{3-2}(0-1)_{01} S_{5-6}(01)_{01} + \frac{3}{2} Q_{2-3}(01)_{01} S_{01}(0-1)_{01}$ $- \frac{3}{2} Q_{4-3}(0-1)_{01} S_{6-7}(01)_{01} + \frac{3}{2} Q_{3-4}(01)_{01} S_{10}(0-1)_{01}$ $+$

